

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model
Run on: October 31, 2004, 02:50:53 ; Search time 1614.64 Seconds
(without alignments)
722.185 Million cell updates/sec

Title: US-09-974-974-1
Perfect score: 32
Sequence: 1 ggucuggccgaugagagagcucuc 32

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 32822875 seqs, 18219865908 residues

Total number of hits satisfying chosen parameters: 238946

Minimum DB seq length: 0
Maximum DB seq length: 60

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : EST:

- 1: gb_est1.*
- 2: gb_est2.*
- 3: gb_hic.*
- 4: gb_est3.*
- 5: gb_est4.*
- 6: gb_est5.*
- 7: gb_est6.*
- 8: gb_gss1.*
- 9: gb_gss2.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB | ID | Description |
|------------|-------|-------------|--------|----|----------|--------------------|
| C 1 | 15.8 | 49.4 | 55 | 9 | BX655160 | Arabidops |
| C 2 | 15.4 | 48.1 | 43 | 1 | AA947665 | cd32402.s |
| C 3 | 15.2 | 47.5 | 48 | 1 | AA861970 | AA861970 oi45d12.s |
| C 4 | 15.2 | 47.5 | 57 | 9 | DR1M24T | AL742081 Danio rer |
| C 5 | 15.2 | 47.5 | 59 | 8 | BZ770511 | SALK_1434 |
| C 6 | 15.2 | 46.9 | 58 | 8 | BH770391 | LLMGtag16 |
| C 7 | 14.8 | 46.2 | 57 | 9 | CR110068 | Forward s |
| C 8 | 14.8 | 46.2 | 60 | 6 | CD948943 | SAH_46 Ge |
| C 9 | 14.6 | 45.6 | 32 | 8 | AZ650179 | IM0520P11 |
| C 10 | 14.6 | 45.6 | 42 | 7 | CF920754 | gmhrw3- |
| C 11 | 14.6 | 45.6 | 46 | 1 | AV833578 | AV833578 |
| C 12 | 14.6 | 45.6 | 52 | 2 | AW246952 | 2822591.5 |
| C 13 | 14.6 | 45.6 | 52 | 9 | CR144482 | Forward s |
| C 14 | 14.6 | 45.6 | 57 | 8 | AZ819538 | 2M0091A14 |
| C 15 | 14.4 | 45.0 | 46 | 1 | AA181388 | zp42f11.s |
| C 16 | 14.4 | 45.0 | 46 | 9 | CR398085 | Arabidops |
| C 17 | 14.4 | 45.0 | 51 | 2 | BF308407 | 601890722 |
| C 18 | 14.4 | 45.0 | 52 | 1 | AA173932 | zp01e02.s |
| C 19 | 14.4 | 45.0 | 54 | 2 | AW781356 | sk68921.y |
| C 20 | 14.4 | 45.0 | 55 | 2 | BE748176 | 601571564 |
| C 21 | 14.2 | 44.4 | 42 | 1 | AJ789426 | AJ789426 |
| C 22 | 14.2 | 44.4 | 50 | 1 | AU107710 | AU107710 |
| C 23 | 14.2 | 44.4 | 52 | 2 | BE321553 | NF024G09I |
| C 24 | 14.2 | 44.4 | 54 | 7 | CK348290 | LeCfAFIP0 |

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|------|------|------|----|---|----------|-------------|
| 25 | 14.2 | 44.4 | 58 | 9 | AL753395 | Arabidops |
| C 26 | 14 | 43.8 | 39 | 7 | R42069 | YF98C06.s1 |
| C 27 | 14 | 43.8 | 43 | 1 | AI647472 | uk42e12.x |
| C 28 | 14 | 43.8 | 53 | 1 | AA846708 | aj41b12.s |
| C 29 | 14 | 43.8 | 53 | 6 | CA339521 | NISC_1Y03 |
| C 30 | 14 | 43.8 | 56 | 8 | BH911451 | SALK_0687 |
| C 31 | 14 | 43.8 | 58 | 8 | AZ792055 | 2M0043E15 |
| C 32 | 14 | 43.8 | 58 | 9 | CG723363 | 1119076A0 |
| C 33 | 13.8 | 43.1 | 27 | 8 | AZ993846 | 2M0279K05 |
| C 34 | 13.8 | 43.1 | 49 | 1 | AI869979 | wl63d04.x |
| C 35 | 13.8 | 43.1 | 55 | 8 | BG759188 | 602710848 |
| C 36 | 13.8 | 43.1 | 55 | 8 | AZ918644 | 1006004H0 |
| C 37 | 13.8 | 43.1 | 58 | 1 | AI039811 | ox49d04.x |
| C 38 | 13.8 | 43.1 | 59 | 1 | AI988246 | sc98a02.y |
| C 39 | 13.8 | 43.1 | 59 | 5 | BP134619 | BP134619 |
| C 40 | 13.8 | 43.1 | 59 | 7 | CN933300 | 000510AOF |
| C 41 | 13.6 | 42.5 | 40 | 6 | CA586986 | LBG26p15 |
| C 42 | 13.6 | 42.5 | 45 | 7 | TI7565 | mp8 v253 Th |
| C 43 | 13.6 | 42.5 | 49 | 1 | AA691190 | vt34c05.r |
| C 44 | 13.6 | 42.5 | 52 | 1 | AA674719 | vm74c06.s |
| C 45 | 13.6 | 42.5 | 54 | 8 | BZ289822 | SALK_0232 |

ALIGNMENTS

| | | | | | |
|------------|---|-------------------|-----|--------|-----------------|
| RESULT 1 | BX655160/c | 55 bp | DNA | linear | GSS 04-APR-2004 |
| LOCUS | Arabidopsis thaliana T-DNA flanking sequence | GK-587C03-021291, | | | |
| DEFINITION | Genomic survey sequence. | | | | |
| ACCESSION | BX655160 | | | | |
| VERSION | BX655160.1 | GI:37611548 | | | |
| KEYWORDS | GSS: | | | | |
| SOURCE | Arabidopsis thaliana (thale cress) | | | | |
| ORGANISM | Arabidopsis thaliana | | | | |
| REFERENCE | Li, Y., Rosso, M.G., Strizhov, N., Viehoveer, P., and Weisshaar, B. | | | | |
| AUTHORS | GABI-Kat SimpleSearch: a flanking sequence tag (FST) database for the identification of T-DNA insertion mutants in Arabidopsis thaliana | | | | |
| JOURNAL | Bioinformatics 19 (11), 1441-1442 (2003) | | | | |
| MEDLINE | 22755829 | | | | |
| PUBMED | 12874060 | | | | |
| REFERENCE | 2 | | | | |
| AUTHORS | Rosso, M.G., Li, Y., Strizhov, N., Reiss, B., Dekker, K. and Weisshaar, B. | | | | |
| TITLE | An Arabidopsis thaliana T-DNA mutagenized population (GABI-Kat) for flanking sequence tag-based reverse genetics | | | | |
| JOURNAL | Plant Mol. Biol. 53 (1-2), 247-259 (2003) | | | | |
| MEDLINE | 23117147 | | | | |
| PUBMED | 14756321 | | | | |
| REFERENCE | 3 | | | | |
| AUTHORS | Strizhov, N., Li, Y., Rosso, M.G., Viehoveer, P., Dekker, K.A. and Weisshaar, B. | | | | |
| TITLE | High-throughput generation of sequence indexes from T-DNA mutagenized Arabidopsis thaliana lines | | | | |
| JOURNAL | BioTechniques 35 (6), 1164-1168 (2003) | | | | |
| PUBMED | 14682050 | | | | |
| REFERENCE | 4 (bases 1 to 55) | | | | |
| AUTHORS | Li, Y., Strizhov, N., Rosso, M.G. and Weisshaar, B. | | | | |
| TITLE | Direct Submission | | | | |
| JOURNAL | Submitted (31-MAR-2004) Weisshaar B., Max-Planck-Institut fuer Zuechtungsforschung, Carl-von-Linne-Weg 10, Koeln, 50829, Germany | | | | |
| COMMENT | This sequence has been recovered from the left border of the T-DNA. It indicates an insertion within the locus defined by BAC clone K18L8. Details on the protocols used for generation of the sequence are described in References 1-3. The sequences are generated at the MPI for Plant Breeding Research in the context of the GABI-Kat project. GABI-Kat is part of the German Plant Genomics program | | | | |

designated 'GABI'. Information on line availability can be found at: <http://www.mpiz-koeln.mpg.de/GABI-Kat/>.

FEATURES
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/organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/strain="Columbia 0"
/db_xref="taxon:3702"
/clone="GK-587C03-021291"
/clone_lib="Arabidopsis thaliana T-DNA insertion lines"
/ecotype="Col-0"
/note="PCR was performed on DNA from Arabidopsis thaliana plants (T1) which were transformed with the T-DNA from vector pGAB11 (GenBank accession number: AY529716). The lines contain one or more T-DNA insertions. The DNA fragment(s) resulting from the PCR were directly sequenced to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed."

ORIGIN

Query Match 49.4%; Score 15.8; DB 9; Length 55;
Best Local Similarity 51.9%; Pred. NO. 6.5e+04;
Matches 14; Conservative 6; Mismatches 7; Indels 0; Gaps 0;

Qy 6 UGCCUGAGAGUGAGUGAGUCUUC 32
Db 47 TCGACTGATGAGCGAGGAATTCTTC 21

RESULT 2
AA947665
LOCUS
DEFINITION
oq32d02.s1 NCI_CGAP GC4 Homo sapiens cDNA clone IMAGE:1588035 3'
similar to TR:Q13539 Q13539 MARINER TRANSPOSASE. ; mRNA sequence.
AA947665
ACCESSION
AA947665
VERSION
AA947665.1 GI:3108918
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 43)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-rc@mail.nih.gov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 1878 Std Error: 0.00
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1. .43
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:1588035"
/tissue_type="pooled germ cell tumors"
/lab_host="DH10B"
/clone_lib="NCI_CGAP GC4"
/note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from 3 pooled germ cell tumors, and was then primed with a Not I -

FEATURES
source

oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library is normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo. "

ORIGIN

Query Match 48.1%; Score 15.4; DB 1; Length 43;
Best Local Similarity 76.5%; Pred. NO. 9.2e+04;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 11 UGAUGAGAGUGAGAGC 27

Db 3 TGATCGAGGATGAGC 19

RESULT 3

AA861970/c

LOCUS

DEFINITION
AA861970 48 bp mRNA linear EST 13-APR-1999
o145d12.s1 NCI_CGAP HN3 Homo sapiens cDNA clone IMAGE:1485623 3'
similar to gb:Z19574_rnal KERATIN, TYPE I CYTOSKELETAL 17 (HUMAN); mRNA sequence.

ACCESSION

AA861970

VERSION

AA861970.1 GI:2954449

KEYWORDS

EST.

SOURCE

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 48)

NCI/NIDR-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.

National Cancer Institute / National Institute of Dental Research,

Cancer Genome Anatomy Project (CGAP), Tumor Gene Index

Unpublished (1997)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-rc@mail.nih.gov

Tissue Procurement: John Ensley, M.D.

CDNA Library Preparation: Stratagene, Inc.

CDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality

Insert Length: 1607 Std Error: 0.00

Seq primer: -40ml3 fwd. ET from Amersham

High quality sequence stop: 1.

Location/Qualifiers

1. .48

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:1485623"

/tissue_type="squamous cell carcinoma from base of tongue"

/lab_host="NCI_CGAP HN3"

/clone_lib="NCI_CGAP HN3"

/note="Organ: tongue; Vector: Bluescript SK-; Site: 1.

EcoRI; Site: 2: XhoI; Cloned unidirectionally. Primer:

Oligo dT. Average insert size 1.0 kb. 5' adaptor sequence:

5' GAATTCGGCAGCAG 3' 3' adaptor sequence: 5'

(GA)10ACTAGTCGAGTTTTTTTTTTTTTTT 3'

ORIGIN

Query Match 47.5%; Score 15.2; DB 1; Length 48;
Best Local Similarity 46.4%; Pred. NO. 1.1e+05;
Matches 13; Conservative 7; Mismatches 8; Indels 0; Gaps 0;

Qy 4 CCUGGCCUGAGUGAGUGAGUCUUU 31

Db 36 CTTTGCCTGATGACATAAAGCTCTGTT 9

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| ET | | |
| ET | | |

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FT /note= "Forms a double-stranded region with nucleotides 3
FT -2 of sequence AAL40447"
XX
PN JP2002119283-A.
XX
PD 23-APR-2002.
XX
PF 13-OCT-2000; 2000JP-00313320.
XX
PR 13-OCT-2000; 2000JP-00313320.
XX
PA (DOKU-) DOKURITSU GYOSHI HOJIN SANGYO GIJUTSU SO.
XX
XX WPI; 2002-483792/52.
XX
XX A nucleic acid enzyme which has selective and effective eradicating
PT activity towards harmful cells by acquiring cleavage activity of a
PT specific target RNA by recognition of the other RNA molecule.
XX
XX Claim 2; Page 2; 17pp; Japanese.
XX
XX The invention relates to a nucleic acid enzyme with modifiable RNA
CC cleavage activity. More specifically the invention relates to a nucleic
CC acid enzyme, trans maxizyme, which has selective and effective
CC eradicating activity towards harmful cells by acquiring cleavage activity
CC of a specific target RNA by recognition of the other RNA molecule. The
CC enzyme of the invention is useful for cleaving target RNA and is useful
CC in treating diseases caused by the target RNA. This polynucleotide
CC sequence represents the maxizyme-constituting RNA molecule T-MzR relating
CC to the invention
XX
SQ Sequence 32 BP; 5 A; 7 C; 11 G; 0 T; 9 U; 0 Other;
Query Match 100.0%; Score 32; DB 6; Length 32;
Best Local Similarity 100.0%; Pred. No. 0.00034;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGUCUGGCCUGAGAGUGAGUGAGUCUUC 32
DB 1 GGUCUGGCCUGAGAGUGAGUGAGUCUUC 32
RESULT 2
AAL40448
ID AAL40448 standard; RNA; 33 BP.
XX
AC AAL40448;
XX
DT 19-SEP-2002 (first entry)
XX
DE Maxizyme-constituting RNA molecule B-MzR.
XX
KW Enzyme; modifiable RNA cleavage activity; maxizyme-constituting RNA;
KW trans maxizyme; B-MzR; ss.
XX
XX Unidentified.
XX
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FT misc_binding 1..9
FT /tag= a
FT /bound_moiety= "Bcl-2 mRNA"
FT /note= "Forms a double-stranded region with nucleotides
FT 19-11 of sequence AAL40451"
FT misc_binding 12..19
FT /tag= d
FT /bound_moiety= "b-MzL RNA"
FT /note= "Forms a double-stranded region with nucleotides
FT 17-10 of sequence AAL40449"
FT misc_binding 14..19
FT /tag= b
FT /bound_moiety= "B-MzL RNA"
FT /note= "Forms a double-stranded region with nucleotides
FT 20-15 of sequence AAL40449"
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FT /tag= c
FT /bound_moiety= "BCR-ABL mRNA"
FT /note= "Forms a double-stranded region with nucleotides
FT 14-1 of sequence AAL40453"
XX
PN JP2002119283-A.
XX
PD 23-APR-2002.
XX
PF 13-OCT-2000; 2000JP-00313320.
XX
PR 13-OCT-2000; 2000JP-00313320.
XX
PA (DOKU-) DOKURITSU GYOSHI HOJIN SANGYO GIJUTSU SO.
XX
XX WPI; 2002-483792/52.
XX
XX A nucleic acid enzyme which has selective and effective eradicating
PT activity towards harmful cells by acquiring cleavage activity of a
PT specific target RNA by recognition of the other RNA molecule.
XX
XX Claim 2; Page 2; 17pp; Japanese.
XX
XX The invention relates to a nucleic acid enzyme with modifiable RNA
CC cleavage activity. More specifically the invention relates to a nucleic
CC acid enzyme, trans maxizyme, which has selective and effective
CC eradicating activity towards harmful cells by acquiring cleavage activity
CC of a specific target RNA by recognition of the other RNA molecule. The
CC enzyme of the invention is useful for cleaving target RNA and is useful
CC in treating diseases caused by the target RNA. This polynucleotide
CC sequence represents the maxizyme-constituting RNA molecule B-MzR relating
CC to the invention
XX
SQ Sequence 33 BP; 6 A; 5 C; 12 G; 0 T; 10 U; 0 Other;
Query Match 66.9%; Score 21.4; DB 6; Length 33;
Best Local Similarity 95.7%; Pred. No. 14;
Matches 22; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGUCUGGCCUGAGAGAGUGAU 23
DB 1 GGUCUGGCCUGAGAGAGUGAU 23
RESULT 3
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ID AEN44085 standard; DNA; 60 BP.
XX
AC AEN44085;
XX
DT 15-JUL-2002 (first entry)
XX
DE Human spliced transcript detection oligonucleotide SEQ ID NO:16833.
XX
KW Human; mouse; rat; splice transcript; detection; RNA transcript;
KW splice variant; transcriptome; oligonucleotide library; ss.
XX
XX Homo sapiens.
OS
XX WO200210449-A2.
XX
XX 07-FEB-2002.
XX
XX 20-JUL-2001; 2001WO-IB001903.
XX
XX 28-JUL-2000; 2000US-0221607P.
XX
XX 02-MAY-2001; 2001US-0287724P.
XX
XX (COMP-) COMPUGEN INC.
XX
XX Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;
XX
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Mon Nov 1 16:34:55 2004

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; FastDB parameter file
; Created By tport on Mon 1 Nov 104 16:34:33-PST.

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Query-Sequence-Name-of-Number  US-09-111-292-6
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Number-of-PAMs           150
Threshold-level-of-similarity 100
Ktuple                   4
Mismatch-penalty         1
Joining-penalty          30
Cutoff-score             1
Randomization-group-length 0
Number-of-randomizations 0
Translation-frame        0
Window-size              500
Gap-penalty              5.00
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Time-to-submit-batch-job none
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Number-of-optimized-scores-to-save 20
Number-of-alignments-to-save 2
Display-annotations      No
Display-context          50
Notify-upon-completion   Yes
Number-of-sequences-to-collect 13
Number-to-save-in-indirect-file 13
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QY 61 UUCGAAACCGGGCAGUACAAACCAAC 88
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Db 61 TTCGAAACCGGGCAGUACAAACCAAC 88

RESULT 12
AXI38489
LOCUS AXI38489 142 bp RNA linear PAT 30-MAY-2001
DEFINITION Sequence 50 from Patent EP1097993.
ACCESSION AXI38489
VERSION AXI38489.1 GI:14274385
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
          artificial sequences.
REFERENCE
1 Taira,K., Warashina,M., Kuwabara,T. and Kawasaki,H.
  Functional ribozyme chimeric molecules capable of sliding
  Patent: EP 1097993-A 50 09-MAY-2001;
  Journal: Secretary of Agency of Industrial Science and Technology (JP) ;
  Taira, Kazunari (JP)
FEATURES
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    Location/Qualifiers
    1..142
    /organism="synthetic construct"
    /mol_type="unassigned RNA"
    /db_xref="taxon:32630"
    /note="the nucleotide sequence of CPP Rz2"
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Query Match 100.0%; Score 88; DB 6; Length 142;
Best Local Similarity 78.4%; Pred. No. 1.4e-19;
Matches 69; Conservative 19; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACCGUUGUUCGUGAGUGGUUACACGUCGCUACACGCGAAAGGUCGCCGG 60
Db 1 ACCGTGGTTTCGTAGTAGTGGTTATCAGCTTCGCTTACACGCGAAAGGTCGCCGG 60
QY 61 UUCGAAACCGGGCAGUACAAACCAAC 88
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Db 61 TTCGAAACCGGGCAGUACAAACCAAC 88

RESULT 13
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LOCUS AXI38490 142 bp RNA linear PAT 30-MAY-2001
DEFINITION Sequence 51 from Patent EP1097993.
ACCESSION AXI38490
VERSION AXI38490.1 GI:14274386
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
          artificial sequences.
REFERENCE
1 Taira,K., Warashina,M., Kuwabara,T. and Kawasaki,H.
  Functional ribozyme chimeric molecules capable of sliding
  Patent: EP 1097993-A 51 09-MAY-2001;
  Journal: Secretary of Agency of Industrial Science and Technology (JP) ;
  Taira, Kazunari (JP)
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    /mol_type="unassigned RNA"
    /db_xref="taxon:32630"
    /note="the nucleotide sequence of CPP Rz3"
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Best Local Similarity 78.4%; Pred. No. 1.4e-19;
Matches 69; Conservative 19; Mismatches 0; Indels 0; Gaps 0;
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Db 1 ACCGTGGTTTCGTAGTAGTGGTTATCAGCTTCGCTTACACGCGAAAGGTCGCCGG 60
QY 61 UUCGAAACCGGGCAGUACAAACCAAC 88
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Db 61 TTCGAAACCGGGCAGUACAAACCAAC 88

RESULT 14
AXI38492
LOCUS AXI38492 142 bp RNA linear PAT 30-MAY-2001
DEFINITION Sequence 53 from Patent EP1097993.
ACCESSION AXI38492
VERSION AXI38492.1 GI:14274388
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
          artificial sequences.
REFERENCE
1 Taira,K., Warashina,M., Kuwabara,T. and Kawasaki,H.
  Functional ribozyme chimeric molecules capable of sliding
  Patent: EP 1097993-A 53 09-MAY-2001;
  Journal: Secretary of Agency of Industrial Science and Technology (JP) ;
  Taira, Kazunari (JP)
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QY 61 UUCGAAACCGGGCAGUACAAACCAAC 88
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Db 61 TTCGAAACCGGGCAGUACAAACCAAC 88

RESULT 15
BD015656
LOCUS BD015656 142 bp RNA linear PAT 27-AUG-2002
DEFINITION Slidable functional chimeric molecule.
ACCESSION BD015656
VERSION BD015656.1 GI:22556793
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
          artificial sequences.
REFERENCE
1 (bases 1 to 142)
  Taira,K., Warashina,M., Kuwabara,T. and Kawasaki,H.
  Slidable functional chimeric molecule
  Patent: JP 2001190282-A 49 17-JUL-2001;
  Journal: DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL
  SCIENCE AND MANABU NAKAJIMA TECHNOLOGY, KAZUNARI TAIRA
COMMENT
OS Artificial Sequence
PN JP 2001190282-A/49
PF 17-JUL-2001
PD 02-NOV-2000 JP 2000336082
PI KAZUNARI TAIRA,MASAKI WARASHINA,TOMOKO KUWABARA,HIROAKI
  KAWASAKI
PC
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A61P43/00,
PC C12N9/22,C12Q1/02,C12Q1/68,G01N33/53,G01N33/566,C12N15/00,PC
A61K37/02
CC Description of Artificial Sequence: the
  nucleotide sequence of

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Mon Nov 1 16:24:21 2004

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CC          CPP Rzl
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ORIGIN

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Best Local Similarity 78.4%; Pred. No. 1.4e-19;
Matches 69; Conservative 19; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACCGUUGGUUCCGUAGUGUUAUCACGUUCCCUAACACGCGAAGGUCCCGG 60
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Search completed: October 31, 2004, 04:50:41
Job time : 1507 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 31, 2004, 03:24:30 ; Search time 1505 Seconds
(without alignments)
2765.112 Million cell updates/sec

Title: US-09-974-974-5
Perfect score: 88
Sequence: 1 accguugnuucguagu.....cgggcacuaacaaacaaac 88

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues

Total number of hits satisfying chosen parameters: 2719732

Minimum DB seq length: 0
Maximum DB seq length: 200

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

GenEmbl.*
1: gb_ba.*
2: gb_htg.*
3: gb_in.*
4: gb_om.*
5: gb_ov.*
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7: gb_ph.*
8: gb_pl.*
9: gb_pr.*
10: gb_ro.*
11: gb_sts.*
12: gb_sy.*
13: gb_un.*
14: gb_vi.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 2 | 88 | 100.0 | 88 | 6 | AX453846 | AX453846 Sequence |
| 3 | 88 | 100.0 | 88 | 6 | BD143502 | BD143502 Nucleic a |
| 4 | 88 | 100.0 | 100 | 6 | E47174 | E47174 Method for |
| 5 | 88 | 100.0 | 117 | 6 | BD174675 | BD174675 Ribozyme |
| 6 | 88 | 100.0 | 137 | 6 | AX429079 | AX429079 Sequence |
| 7 | 88 | 100.0 | 137 | 6 | BD143601 | BD143601 Method of |
| 8 | 88 | 100.0 | 138 | 6 | AX453858 | AX453858 Sequence |
| 9 | 88 | 100.0 | 141 | 6 | AX138491 | AX138491 Sequence |
| 10 | 88 | 100.0 | 141 | 6 | BD015659 | BD015659 Slidable |
| 11 | 88 | 100.0 | 142 | 6 | AX138488 | AX138488 Sequence |
| 12 | 88 | 100.0 | 142 | 6 | AX138489 | AX138489 Sequence |
| 13 | 88 | 100.0 | 142 | 6 | AX138490 | AX138490 Sequence |
| 14 | 88 | 100.0 | 142 | 6 | AX138492 | AX138492 Sequence |
| 15 | 88 | 100.0 | 142 | 6 | BD015656 | BD015656 Slidable |
| 16 | 88 | 100.0 | 142 | 6 | BD015657 | BD015657 Slidable |
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| 18 | 88 | 100.0 | 142 | 6 | BD015660 | BD015660 Slidable |
| 19 | 88 | 100.0 | 151 | 6 | AX138449 | AX138449 Sequence |

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| 26 | 82.8 | 94.1 | 153 | 12 | AB080621 | AB080621 Synthetic | |
| 27 | 82.8 | 94.1 | 153 | 12 | AB080622 | AB080622 Synthetic | |
| 28 | 82.8 | 94.1 | 153 | 12 | AB080623 | AB080623 Synthetic | |
| 29 | 82.8 | 94.1 | 153 | 12 | AB080624 | AB080624 Synthetic | |
| 30 | 81 | 92.0 | 142 | 6 | E33204 | E33204 Expression | |
| 31 | 76 | 86.4 | 128 | 6 | E33205 | E33205 Expression | |
| 32 | 74.8 | 85.0 | 95 | 6 | E33206 | E33206 Expression | |
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| | 36 | 73.4 | 83.4 | 149 | 6 | E33207 | E33207 Expression |
| 37 | 70.4 | 80.0 | 132 | 6 | AR041184 | AR041184 Sequence | |
| 38 | 70.4 | 80.0 | 132 | 6 | AR113038 | AR113038 Sequence | |
| 39 | 70.4 | 80.0 | 132 | 6 | I66463 | I66463 Sequence | |
| C | 40 | 66.8 | 75.9 | 113 | 6 | E33209 | E33209 Expression |
| | 41 | 66 | 75.0 | 110 | 6 | E33208 | E33208 Expression |
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| | 43 | 64.4 | 73.2 | 76 | 4 | RATRV1 | K00253 Rabbit Val- |
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ALIGNMENTS

RESULT 1
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LOCUS Novel maxizyme.
DEFINITION Novel maxizyme.
ACCESSION BD182356
VERSION BD182356.1 GI:30793274
KEYWORDS WO 02092821-A/3.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 88)
AUTHORS Taira,K., Warashina,T., Warashina,M., Kawasaki,H., Hara,T. and Nozawa,I.
TITLE Novel maxizyme
JOURNAL Patent: WO 02092821-A 3 21-NOV-2002;
NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY,
TAISHO PHARMACEUTICAL CO LTD,GENOFUNCTION INC,KAZUNARI TAIRA,
TOMOKO WARASHINA,MASAKI WARASHINA,HIROAKI KAWASAKI,TOSHIKUMI HARA,
IWAO NOZAWA
COMMENT OS Homo sapiens (human)
PN WO 02092821-A/3
PD 21-NOV-2002
PF 30-APR-2002 WO 2002JP0004322
PR 01-MAY-2001 JP OIP 134469
PI KAZUNARI TAIRA,TOMOKO WARASHINA,MASAKI WARASHINA,HIROAKI PI
KAWASAKI,
PI TOSHIKUMI HARA,IWAO NOZAWA
PC C12N15/55,C12N9/22,C12Q1/34,A61K48/00,A61K38/43 CC Novel
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FT Location/Qualifiers
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PC C12N1/19,C12N1/21,C12N5/10,C12N9/00,C12Q1/25,C12Q1/68,C12N15/1/
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FEATURES
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Query Match 100.0%; Score 88; DB 6; Length 88;
Best Local Similarity 78.4%; Pred. No. 1.4e-19;
Matches 69; Conservative 19; Mismatches 0; Indels 0; Gaps 0;

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RESULT 4

E47174

LOCUS 100 bp DNA linear PAT 27-AUG-2002
DEFINITION Method for selecting active ribozyme.
ACCESSION E47174
VERSION E47174.1 GI:22553362
KEYWORDS JP 2001128682-A/9.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 100)
AUTHORS Tabira,K. and Kawasaki,H.
TITLE Method for selecting active ribozyme
JOURNAL Patent: JP 2001128682-A 9 15-MAY-2001;
AGENCY OF IND SCIENCE & TECHNOL
COMMENT OS Homo sapiens (human)
PN JP 2001128682-A/9
PD 15-MAY-2001
PF 05-NOV-1999 JP 1999314579
PI KAZUNARI TABIRA,HIROAKI KAWASAKI
PC C12N15/09,C12Q1/68//C12N5/10,C12N15/00,C12N5/00 CC
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FEATURES
source

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RESULT 5

Matches 69; Conservative 19; Mismatches 0; Indels 0; Gaps 0;
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RESULT 2

AX453846

LOCUS 88 bp RNA linear PAT 06-JUL-2002
DEFINITION Sequence 5 from Patent EP1213351.
ACCESSION AX453846
VERSION AX453846.1 GI:21713515
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1
AUTHORS Taira,K., Warashina,M. and Warashina,T.
TITLE Nucleic acid enzymes acquiring an activity for cleaving a target
JOURNAL rna by recognising another molecule
Patent: EP 1213351-A 5 12-JUN-2002;
National Institute of Advanced Industrial Science and Technology
(JP)

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source

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ORIGIN

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Db 61 TTCGAAACCGGGCACTACAAAACCAAC 88

RESULT 3

BD143502

LOCUS 88 bp RNA linear PAT 17-JAN-2003
DEFINITION Nucleic acid enzyme acquiring activity of cleaving other specific
target RNA by recognizing RNA molecule.
ACCESSION BD143502
VERSION BD143502.1 GI:27849260
KEYWORDS JP 2002119283-A/5.
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 88)
AUTHORS Taira,K., Warashina,M. and Warashina,T.
TITLE Nucleic acid enzyme acquiring activity of cleaving other specific
JOURNAL target RNA by recognizing RNA molecule
Patent: JP 2002119283-A 5 23-APR-2002;
DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL
SCIENCE AND P T BAKRIE AND BROTHERS,JAPAN BIO INDUSTRY ASSOCIATION,
TECHNOLOGY

COMMENT

OS Artificial Sequence
PN JP 2002119283-A/5
PD 23-APR-2002
PF 13-OCT-2000 JP 2000313320
PI KAZUNARI TAIRA,MASAKI WARASHINA,TOMOKO WARASHINA PC

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BD174675
LOCUS BD174675 117 bp DNA linear PAT 18-MAR-2003
DEFINITION Ribozyme expression system.
ACCESSION BD174675
VERSION BD174675.1 GI:29120365
KEYWORDS JP 2002262880-A/1.
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 117)
AUTHORS Takebe, Y. and Okawa, J.
TITLES Ribozyme expression system
JOURNAL Patent: JP 2002262880-A 1 17-SEP-2002;
DIRECTOR GENERAL OF NATIONAL INSTITUTE OF INFECTIONS DISEASES,
YUTAKA TAKEBE, JUN OKAWA
OS Artificial Sequence
PN JP 2002262880-A/1
PD 17-SEP-2002
PF 09-MAR-2001 JP 2001067253
PI YUTAKA TAKEBE, JUN OKAWA
PC C12N15/09, A61K31/711, A61K35/76, A61K48/00, A61P31/18, C12N5/10,
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QY 61 UUCGAAACCGGGCACUACAAAACCAAC 88
DB 89 TTCGAAACCGGGCACTACAAAACCAAC 116
RESULT 6
AX429079
LOCUS AX429079 137 bp RNA linear PAT 21-JUN-2002
DEFINITION Sequence 2 from Patent EP1201751.
ACCESSION AX429079
VERSION AX429079.1 GI:21540419
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1
AUTHORS Taira, K. and Sano, M.
TITLES Method for selecting highly functional nucleic acid molecules
within cells
JOURNAL Patent: EP 1201751-A 2 02-MAY-2002;
National Institute of Advanced Industrial Science and Technology
(JP)
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source
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AX453858
LOCUS AX453858 138 bp RNA linear PAT 06-JUL-2002
DEFINITION Sequence 17 from Patent EP1213351.
ACCESSION AX453858
VERSION AX453858.1 GI:21713527
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1
AUTHORS Taira, K., Warashina, M. and Warashina, T.
TITLES Nucleic acid enzymes acquiring an activity for cleaving a target
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Best Local Similarity 78.4%; Pred. No. 1.4e-19;
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DB 61 TTCGAAACCGGGCACTACAAAACCAAC 88
RESULT 7
BD143601
LOCUS BD143601 137 bp RNA linear PAT 17-JAN-2003
DEFINITION Method of selecting high-function nucleic acid molecule in cell.
ACCESSION BD143601
VERSION BD143601.1 GI:27849359
KEYWORDS JP 2002125685-A/2.
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 137)
AUTHORS Taira, K. and Sano, M.
TITLES Method of selecting high-function nucleic acid molecule in cell
JOURNAL Patent: JP 2002125685-A 2 08-MAY-2002;
DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL
SCIENCE AND HIROSHI YATSUHASHI, TECHNOLOGY, KAZUNARI TAIRA
OS Artificial Sequence
PN JP 2002125685-A/2
PD 08-MAY-2002
PF 30-OCT-2000 JP 2000331347
PI KAZUNARI TAIRA, MASAYUKI SANO
PC C12N15/09, C12N9/00, C12Q1/02, C12Q1/25, C12Q1/68, C12N15/00 CC
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FH Key Location/Qualifiers
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Matches 69; Conservative 19; Mismatches 0; Indels 0; Gaps 0;
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QY 61 UUCGAAACCGGGCACUACAAAACCAAC 88
DB 61 TTCGAAACCGGGCACTACAAAACCAAC 88
RESULT 8
AX453858
LOCUS AX453858 138 bp RNA linear PAT 06-JUL-2002
DEFINITION Sequence 17 from Patent EP1213351.
ACCESSION AX453858
VERSION AX453858.1 GI:21713527
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1
AUTHORS Taira, K., Warashina, M. and Warashina, T.
TITLES Nucleic acid enzymes acquiring an activity for cleaving a target
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rna by recognising another molecule
Patent: EP 1213351-A 17 12-JUN-2002;
National Institute of Advanced Industrial Science and Technology
(JP)

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Best Local Similarity 78.4%; Pred. No. 1.4e-19;
Matches 69; Conservative 19; Mismatches 0; Indels 0; Gaps 0;

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Qy 61 UUCGAAACCGGCGACUACAAAACCAAC 88
Db 61 TTCGAAACCGGCGACTACAAAACCAAC 88

RESULT 9
AXI38491 141 bp RNA linear PAT 30-MAY-2001
LOCUS
DEFINITION Sequence 52 from Patent EP1097993.
AXI38491
ACCESSION
VERSION AXI38491.1 GI:14274387
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.

REFERENCE
1
AUTHORS Taira, K., Warashina, M., Kuwabara, T. and Kawasaki, H.
TITLE Functional ribozyme chimeric molecules capable of sliding
JOURNAL Patent: EP 1097993-A 52 09-MAY-2001;
Secretary of Agency of Industrial Science and Technology (JP);
Taira, Kazunari (JP)

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Best Local Similarity 78.4%; Pred. No. 1.4e-19;
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RESULT 10
BD015659 141 bp RNA linear PAT 27-AUG-2002
LOCUS
DEFINITION Slidable functional chimeric molecule.
BD015659
ACCESSION
VERSION BD015659.1 GI:22556796
KEYWORDS JP 2001190282-A/52.
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.
REFERENCE 1 (bases 1 to 141)

AUTHORS

Taira, K., Warashina, M., Kuwabara, T. and Kawasaki, H.

Slidable functional chimeric molecule

Patent: JP 2001190282-A 52 17-JUL-2001;

DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL

SCIENCE AND MANABU NAKAJIMA TECHNOLOGY, KAZUNARI TAIRA

OS Artificial Sequence

PN JP 2001190282-A/52

PD 17-JUL-2001

PF 02-NOV-2000 JP 2000336082

PI KAZUNARI TAIRA, MASAKI WARASHINA, TOMOKO KUWABARA, HIROAKI

KAWASAKI

PC

C12N15/09, A61K31/7105, A61K31/711, A61K38/00, A61K48/00, A61P31/12, PC

A61P43/00,

PC C12N9/22, C12Q1/02, C12Q1/68, G01N33/53, G01N33/566, C12N15/00, PC

A61K37/02

CC Description of Artificial Sequence: the

nucleotide sequence of

CPP Rz4

FH Key Location/Qualifiers

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FEATURES

source

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ORIGIN

Query Match 100.0%; Score 88; DB 6; Length 141;

Best Local Similarity 78.4%; Pred. No. 1.4e-19;

Matches 69; Conservative 19; Mismatches 0; Indels 0; Gaps 0;

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RESULT 11

AXI38488

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

FEATURES

source

1. .142

/organism="synthetic construct"

/mol_type="unassigned RNA"

/db_xref="taxon:32630"

/note="the nucleotide sequence of CPP Rz1"

ORIGIN

Query Match

Best Local Similarity

Matches

Qy

Db


```

SOURCE
ORGANISM      Medicago truncatula (barrel medic)
               Medicago truncatula
               Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
               Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
               rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
               Medicago.
REFERENCE      1 (bases 1 to 60)
AUTHORS       Jakab,J., Deak,G., Kevei,Z., Karchesz,K., Sarai,E., Kiss,P.,
               Kereszt,A., Kalo,P., Endre,G. and Kiss,G.B.
TITLE         Medicago Truncatula BAC end sequencing
JOURNAL       Unpublished (2004)
COMMENT       Contact: Deak,G.
               Alfalfa Genomics Group; Medicago Genetics Group
               Agricultural Biotechnology Center; Biological Research Center
               P.O. Box 411, Hungary, H-2100 Godollo, Szent-Gyorgyi Albert ut 4.;
               P.O. BOX 521, Hungary, H-6701 Szeged, Temesvari krt. 62
               Tel: 3628526142
               Fax: 3628526193
               Email: gdeake@abc.hu
               Plate: 133 row: P column: 14
               Seq primer: OP Reverse
               Class: BAC ends.
FEATURES      Location/Qualifiers
               source
               1..60
               /organism="Medicago truncatula"
               /mol_type="genomic DNA"
               /cultivar="Jemalong"
               /isolate="A17"
               /db_xref="taxon:3880"
               /sex="Hermaphrodite"
               /clone_lib="Medicago truncatula BAC end sequences"
               /notes="Organ: Leaf; Vector: pBeloll; Site 1: HindIII;
               Site 2: HindIII; Construction of a bacterial artificial
               chromosome library of Medicago truncatula and
               identification of clones containing ethylene-response
               genes. Theor Appl Genet (1999) 98: 638-646 Y.-W., Nam;
               R.V., Penmetsta; G., Endre; P., Uribe; D., Kim; D.R., Cook"
ORIGIN
Query Match      49.6%; Score 13.4; DB 9; Length 60;
Best Local Similarity 52.2%; Pred. No. 1.3e+05;
Matches 12; Conservative 5; Mismatches 6; Indels 0; Gaps 0;

QY 1 GUCUGACUGUUCAGCAACCGG 23
   ||| | :| :| :| :|
Db 47 GTCTGCCCATTCATACACAGG 25

RESULT 10
CL265635
LOCUS          CL265635
DEFINITION    02S0288-04B1-A02 UniformMu MutAIL Library Zea mays genomic clone
               02S0288-04B1-A02, genomic survey sequence.
ACCESSION     CL265635
VERSION       CL265635.1 GI:41873394
KEYWORDS      GSS.
SOURCE        Zea mays
ORGANISM      Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
               Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
               clade; Panicoideae; Andropogoneae; Zea.
REFERENCE      1 (bases 1 to 43)
AUTHORS       Lathaw,S., Tan,B.-C., Settles,A.M. and McCarty,D.R.
TITLE         Sequence tagged transposon insertions from the UniformMu maize
               population
JOURNAL       Unpublished (2003)
COMMENT       Contact: Donald R. McCarty
               Plant Molecular and Cellular Biology Program
               University of Florida
               PO 110690 Gainesville, FL 32611-0690, USA
               Tel: 352-392-1928 x322
               Email: drmc@ufl.edu
               Sequence flanking probable Mu insertion site in UniformMu line:

```

```

02S0288-04, Primer set: B
Class: transposon insertion site.
Location/Qualifiers
1..43
/organism="Zea mays"
/mol_type="genomic DNA"
/strain="W22 (ACR, bz1-m9)"
/cultivar="UniformMu"
/db_xref="taxon:4577"
/clone="02S0288-04B1-A02"
/clone_lib="UniformMu MutAIL Library"
/notes="Vector: TOPO-PCR4; DNA flanking Mu transposon
insertions in Mu inactive lines were extracted from the
UniformMu maize population by the thermo asymmetric
interlaced PCR (TAIL) protocol using primers specific for
the Mu terminal inverted repeat and a set of 16 arbitrary
primers. Amplicons were size enriched using Sepharose 400
spin columns and cloned into the TOPO PCR4 vector."
ORIGIN
Query Match      48.9%; Score 13.2; DB 9; Length 43;
Best Local Similarity 50.0%; Pred. No. 1.6e+05;
Matches 13; Conservative 5; Mismatches 8; Indels 0; Gaps 0;

QY 1 GUCUGACUGUUCAGCAACCGGUC 26
   ||| | :| :| :| :|
Db 3 GCCTTCATTTCGTGGAATCCGGTTC 28

RESULT 11
AZ820793/c
LOCUS          AZ820793
DEFINITION    2M0093B18F Mouse 10kb plasmid UUGCLM library Mus musculus genomic
               clone UUGC2M0093B18 F, genomic survey sequence.
ACCESSION     AZ820793
VERSION       AZ820793.1 GI:12990701
KEYWORDS      GSS.
SOURCE        Mus musculus (house mouse)
ORGANISM      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE      1 (bases 1 to 45)
AUTHORS       Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
               Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
               Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
               Niederhausern,A. and Wright,D., Weiss,R.
TITLE         Mouse whole genome scaffolding with paired end reads from 10kb
               plasmid inserts
JOURNAL       Unpublished (2000)
COMMENT       Contact: Robert B. Weiss
               University of Utah Genome Center
               Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
               84112, USA
               Tel: 801 585 5606
               Fax: 801 585 7177
               Email: ddunn@genetics.utah.edu
               Insert Length: 10000 Std Error: 0.00
               Plate: 0093 row: B column: 18
               Seq primer: CGTTGTAAACGACGCGCCAGT
               Class: plasmid ends
               High quality sequence stop: 45.
FEATURES      Location/Qualifiers
               source
               1..45
               /organism="Mus musculus"
               /mol_type="genomic DNA"
               /strain="C57BL/6J"
               /db_xref="taxon:10090"
               /clone="UUGC2M0093B18"
               /sex="Male"
               /lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
               /clone_lib="Mouse 10kb plasmid UUGCLM library"
               /note="Vector: PWD42nv; Purified genomic DNA from M.

```

musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 48.9%; Score 13.2; DB 8; Length 45;
Best Local Similarity 53.8%; Pred. No. 1.6e+05;
Matches 14; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Qy 1 GUCGACUGUUCAGCAACCGGUC 26
Db 41 GTCTATCTGCAGTGAACCTGTC 16

RESULT 12

AL119755 uc20a09.r1 Soares mammary_gland_NBMWG Mus musculus cDNA clone
DEFINITION IMAGE:1398520 5' similar to WP:02B7.4 CE12326 ;, mRNA sequence.

ACCESSION AL119755

VERSION AL119755.1 GI:3520079

KEYWORDS Mus musculus (house mouse)

ORGANISM

REFERENCE AUTHORS
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 46)
Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenger, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and Waterston, R.

The WashU-HMI Mouse EST Project

Unpublished (1996)

Contact: Marra M/Mouse EST Project

WashU-HMI Mouse EST Project

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: mouseest@wustl.edu

This clone is available royalty-free through LLM: contact the

IMAGE Consortium (info@image.llnl.gov) for further information.

MGI:910236

Trace considered overall poor quality

Possible reversed clone: similarity on wrong strand

Seq primer: -28ml3 rev2 ET from Amersham

High quality sequence stop: 1.

Location/Qualifiers

1. .46

/organism="Mus musculus"

/mol_type="mRNA"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="IMAGE:1398520"

/sex="male"

/tissue_type="mammary gland"

/dev_stage="4 weeks"

/lab_host="DH10B"
/clone_lib="Soares_mammary_gland_NBMWG"
/note="Organ: mammary gland; Vector: pT73D-Pac (Pharmacia) with a modified polylinker; Site: 1: Not I; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5', TGTTACCAATCGAAGTGGAGCGCGCGCATGTTTTTTTTTTTTTTTTTTT T 3']; double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. RNA provided by Dr. Minoru Ko, Wayne State Univ. Library constructed and normalized by Bento Soares and M. Fatima Bonaldo."

ORIGIN

Query Match 48.9%; Score 13.2; DB 1; Length 46;
Best Local Similarity 46.2%; Pred. No. 1.6e+05;
Matches 12; Conservative 6; Mismatches 8; Indels 0; Gaps 0;

Qy 2 UCUGACUGUUCAGCAACCGGUC 27
Db 9 TCAGACTCTTGATCGTGCTGGATCC 34

RESULT 13

TA126C12Q 53 bp DNA linear GSS 13-DEC-2000
LOCUS T. brucei sheared genomic DNA clone 126c12, reverse sequence,
DEFINITION genomic survey sequence.

ACCESSION AL463403

VERSION AL463403.1 GI:11833913

KEYWORDS Trypanosoma brucei

SOURCE Trypanosoma brucei

ORGANISM

Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.

1 (bases 1 to 53)

Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R.,

Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L.,

Melville, S.E., Rajandream, M.A. and Barrell, B.G.

Direct Submision

Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing

project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,

Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and

nh@sanger.ac.uk

Constructed at the Institute for Genomic Research (TIGR),

Rockville, MD. Genomic DNA isolated from a cloned population of

Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared

to give a tight size distribution (

4 kb). The v + i method used for the library construction is

described in detail in Smith, H. and Venter, J.C. (Making small

insert libraries for whole genome shotgun sequencing projects. In

Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.

Barrell, Oxford University Press, 1999).

Email: nelsayed@tigr.org

Details of T. brucei sequencing at the Sanger Centre are available

at http://www.sanger.ac.uk/Projects/T_brucei/.

Location/Qualifiers

1. .53

/organism="Trypanosoma brucei"

/mol_type="genomic DNA"

/strain="TREU927"

/db_xref="taxon:5691"

/clone="126c12"

Query Match 48.9%; Score 13.2; DB 9; Length 53;

Best Local Similarity 46.2%; Pred. No. 1.6e+05;

Matches 12; Conservative 6; Mismatches 8; Indels 0; Gaps 0;

Qy 2 UCUGACUGUUCAGCAACCGGUC 27

Db 14 TCCTATATACATTAAATTCGGGTCC 39

```

RESULT 14
AA905188/c
LOCUS
DEFINITION
  AA905188
  43 bp mRNA linear EST 09-JUN-1998
  IMAGE:1507373 3' similar to SW:PDK_HUMAN O00764 PYRIDOXINE KINASE
  ;, mRNA sequence.
ACCESSION
  AA905188
  1 GI:3040311
VERSION
  AA905188
KEYWORDS
  EST.
SOURCE
  Homo sapiens (human)
ORGANISM
  Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
  1 (bases 1 to 43)
AUTHORS
  NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE
  National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
  Tumor Gene Index
JOURNAL
  Unpublished (1997)
COMMENT
  Contact: Robert Strausberg, Ph.D.
  Email: cgaps@mail.nih.gov
  This clone is available royalty-free through LILN; contact the
  IMAGE Consortium (info@image.llnl.gov) for further information.
  Trace considered overall poor quality
  Insert Length: 530 Std Error: 0.00
  Seq primer: -40m13 fwd. Bt from Amersham
  High quality sequence stop: 1.
FEATURES
  source
  1..43
  /organism="Homo sapiens"
  /mol_type="mRNA"
  /db_xref="taxon:9606"
  /clone="IMAGE:1507373"
  /lab_host="DH10B"
  /clone_lib="Soares NFL T_GBC S1"
  /note="Organ: pooled; Vector: pT73D-Pac (Pharmacia) with
  a modified polylinker; Site 1: Not I; Site 2: Eco RI;
  Equal amounts of plasmid DNA from three normalized
  libraries (fetal lung NBHL19W, testis NHT, and B-cell
  NCI CGAP GC31) were mixed, and ss circles were made in
  vitro. Following HAP purification, this DNA was used as
  tracer in a subtractive hybridization reaction. The driver
  was PCR-amplified cDNAs from pools of 5,000 clones made
  from the same 3 libraries. The pools consisted of
  I.M.A.G.E. clones 297480-302087, 682632-687239,
  726408-728711, and 729096-731399. Subtraction by Bento
  Soares and M. Fatima Bonaldo."
ORIGIN
  Query Match 48.1%; Score 13; DB 1; Length 43;
  Best Local Similarity 47.6%; Pred. No. 1.9e+05;
  Matches 10; Conservative 6; Mismatches 5; Indels 0; Gaps 0;

QY 1 GUCUGACUGUUCUACGAAACC 21
  ||:|:|:|:|:|:|
Db 34 GTCCTCCCTGTGATGGAACCC 14

RESULT 15
BZ594864
LOCUS
DEFINITION
  BZ594864
  44 bp DNA linear GSS 07-JAN-2003
  SALK_085323.43.20.x Arabidopsis thaliana TDNA insertion lines
  Arabidopsis thaliana genomic clone SALK_085323.43.20.x, genomic
  survey sequence.
ACCESSION
  BZ594864
  1 GI:27535383
VERSION
  BZ594864
KEYWORDS
  GSS.
SOURCE
  Arabidopsis thaliana (thale cress)
ORGANISM
  Arabidopsis thaliana
  Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
  Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
  rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
REFERENCE
  1 (bases 1 to 44)
AUTHORS
  Alonso,J.M., Leisse,T.J., Barajas,P., Chen,H., Cheuk,R.,
  Gadrinab,C., Jeske,A., Karnes,M., Kim,C.J., Parker,H., Prednis,L.,
  Shinn,P., Zimmerman,J. and Ecker,J.R.
  A Sequence-Indexed Library of Insertion Mutations in the
  Arabidopsis Genome
  Unpublished (2001)
COMMENT
  Contact: Joseph R. Ecker
  Salk Institute Genomic Analysis Laboratory (SIGNAL)
  The Salk Institute for Biological Studies
  10010 N. Torrey Pines Road, La Jolla, CA 92037, USA
  Tel: 858 453 4100 x1752
  Fax: 858 558 6379
  Email: ecker@salk.edu
  This is single pass sequence recovered from the left border of
  TDNA. This sequence lies within an annotated exon of At5g35690.
  Class: TDNA tagged.
FEATURES
  Location/Qualifiers
  source
  1..44
  /organism="Arabidopsis thaliana"
  /mol_type="genomic DNA"
  /ecotype="Col-0"
  /db_xref="taxon:3702"
  /clone="SALK_085323.43.20.x"
  /clone_lib="Arabidopsis thaliana TDNA insertion lines"
  /note="PCR was performed on Arabidopsis thaliana lines
  each of which contains one or more TDNA insertion
  elements. The resultant fragment for each line was
  directly sequenced to determine the genomic sequence at
  the site of insertion. Details of the protocols used can
  be found at http://signal.salk.edu/tdna_protocols.html"
ORIGIN
  Query Match 48.1%; Score 13; DB 8; Length 44;
  Best Local Similarity 52.4%; Pred. No. 1.9e+05;
  Matches 11; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY 5 GACUGUUCUACGAAACCGGU 25
  ||:|:|:|:|:|:|
Db 13 GAGTGTTCATCAGAAAGGGT 33

Search completed: October 31, 2004, 04:14:10
Job time : 1373.36 secs

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ORIGIN
Query Match          45.9%; Score 40.4; DB 2; Length 57;
Best Local Similarity 66.0%; Pred. No. 0.00023;
Matches 33; Conservative 11; Mismatches 6; Indels 0; Gaps 0;

QY 18 UGUAGUGGUUACAGUUCGUACACGCGAAAGGUCGCCGGUUCGAA 67
   :|||:||||:||||:||||:||||:||||:||||:||||:||||:
1 TGTAGCGGTTATCATTCGCTCACGCGAAGGTCCTCCCGTTTATAA 50

RESULT 2
CC059191/c
LOCUS CC059191
DEFINITION ii20e02.b1 WGS-SbicolorF (DH5a methyl filtered) Sorghum bicolor
genomic clone ii20e02, genomic survey sequence.
ACCESSION CC059191
VERSION CC059191.1 GI:29503921
SOURCE GSS.
ORGANISM Sorghum bicolor (sorghum)
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
clade; Panicoideae; Andropogoneae; Sorghum.
REFERENCE 1 (bases 1 to 158)
AUTHORS Rabinowicz,P.D., O'Shaughnessy,A.L., Ballja,V., Dedhia,N.,
Katzenburger,F., King,L., Miller,B., Muller,S., Nascimento,L.,
Zutavern,T., Palmer,L., McCombie,W.R. and Martienssen,R.A.
Genomic shotgun sequences from Sorghum bicolor (methyl-filtered)
Unpublished (2002)
Contact: W. Richard McCombie
Lita Annenberg Hazen Genome Sequencing Center
Cold Spring Harbor Laboratory
PO Box 100, Cold Spring Harbor, NY 11724, USA
Tel: 516 367 8884
Fax: 516 367 8874
Email: mcombie@cshl.org
Plate: ii20 row: e column: 02
Seq primer: -21M13UnivFwd
Class: shotgun
High quality sequence stop: 158.
Location/Qualifiers
1..158
/organism="Sorghum bicolor"
/mol_type="genomic DNA"
/db_xref="taxon:4558"
/clone="ii20e02"
/lab_host="DH5a"
/clone_lib="WGS-SbicolorF (DH5a methyl filtered)"
/note="Site 1: Xba I; Site 2: Xba I; The vector was
digested with XbaI and one nucleotide was added by fill in
in the recessive 3' end. The genomic DNA was nebulized,
end repaired, adaptor ligated and size fractionated using
sephadex. The resulting fragments were between 0.8 and 3
kb and were cloned into the vector (.x/y reads in M13mp19,
b/g reads in pUC19). The same ligation was transformed
into DH5a."

ORIGIN
Query Match          44.3%; Score 39; DB 8; Length 158;
Best Local Similarity 61.9%; Pred. No. 0.0009;
Matches 39; Conservative 15; Mismatches 15; Indels 0; Gaps 0;

QY 23 UGUUUAUCAGUUCGUACACGCGAAGGUCGCCGGUUCGAAACGGGCACUACAAA 82
   :|||:||||:||||:||||:||||:||||:||||:||||:||||:
78 TGGTATACGTCAGTCTAACAACACTGAAGGTCCTCGGTTCCAGCCCGGCACGGCAA 19

QY 83 ACC 85
   |||
DB 18 ATC 16

```

RESULT 3

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD clade; Panicoideae; Andropogoneae; Zea.

REFERENCE

AUTHORS

1. (bases 1 to 174)
Whitelaw, C.A., Quackenbush, J., Van Aken, S., Uterback, T., Resnick, A., Fraser, C.M., Yuan, Y., San Miguel, P., Ma, J., and Bennetzen, J.

Maize Genomics Consortium

Unpublished (2003)

Contact: Cathy Whitelaw

TIGR

9712 Medical Center Drive, Rockville, MD 20850, USA

Tel: 301-838-5843

Fax: 301-838-0208

Email: whitelaw@tigr.org

Seq primer: TF

Class: sheared ends.

FEATURES

source

1. 174

Location/Qualifiers

/organism="Zea mays"

/mol_type="genomic DNA"

/strain="B73"

/db_xref="taxon:4577"

/clone="ZM8B179F03"

/clone_lib="ZM 0.6 1.0 KB"

/note="Vector: PCR4-TOPO; Site 1: EcoRI; 0.6-1.0 kb high

Cot selected genomic DNA library"

ORIGIN

Query Match 37.5%; Score 33; DB 8; Length 174;
Best Local Similarity 57.5%; Pred. No. 0.17; Indels 0; Gaps 0;
Matches 42; Conservative 6; Mismatches 25; Indels 0; Gaps 0;

QY 14 GUAGUGUAGUGGUUAUCAGUUGCCUACACGCGAAAGUCCCGUUGCGAAACCGGC 73
DB 66 GTAGTTCAGATGTAGACGCTCGCTTAGCAGCGAGCGCGGATCGATACCCCGC 125
QY 74 ACUACAAAACCA 86
DB 126 ATCTCAAAATCA 138

RESULT 5

LOCUS

BX176513 177 bp DNA linear GSS 13-MAR-2003
Danio rerio genomic clone DKEY-176E1, genomic survey sequence.

ACCESSION

BX176513

Version 1.1 GI:28008239

KEYWORDS

GSS.

SOURCE

ORGANISM

Danio rerio (zebrafish)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Actinopterygii; Neopterygii; Teleostei; Ostariophysi;

Cypriniformes; Cyprinidae; Danio.

1. (bases 1 to 177)

Humphray, S.J., Huckle, E. and Durham, J.L.

Submitted (13-MAR-2003) The Sanger Institute, Wellcome Trust Genome

Campus, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries:

humquerry@sanger.ac.uk Unpublished

This sequence was generated from the T7 end of BAC 176E1. 176E1 is

part of the Daniokey BAC Library created by R. Plasterk and N.V.

Keygene. Further details:

http://www.sanger.ac.uk/projects/D_rerio/.

Location/Qualifiers

1. 177

/organism="Danio rerio"

/mol_type="genomic DNA"

/db_xref="taxon:7955"

/clone="DKEY-176E1"

/tissue type="Testis"

/note="Vector pIndigoBAC-536"

ORIGIN

Query Match 35.9%; Score 31.6; DB 9; Length 177;
Best Local Similarity 54.8%; Pred. No. 0.57;
Matches 34; Conservative 9; Mismatches 19; Indels 0; Gaps 0;

QY 12 CCGUAGUGUAGUGGUUAUCAGUUGCCUACACGCGAAAGUCCCGUUGCGAAACCGG 71

DB 115 CAGTAATGCACTGGCAGCACGTTTCCTCACAGCAAGAGGTCGCTGTGAGCCCTG 174

QY 72 GC 73

DB 175 GC 176

RESULT 6

LOCUS H04713

DEFINITION e17-1.3.3-3' Lambda Zap Express library of P. E. Schwartz (9/93)

Rattus norvegicus cDNA clone e17-1.3.3-3', mRNA sequence.

ACCESSION H04713

VERSION H04713.1

KEYWORDS GI:867646

SOURCE EST.

ORGANISM Rattus norvegicus (Norway rat)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;

Rattus.

1. (bases 1 to 126)

Schwartz, P.E., Grieshaber, N.A., Grieshaber, S.S. and Majack, R.A.

An expressed sequence tag from in vitro embryonic rat vascular

smooth muscle cells

Unpublished (1995)

Contact: Phillip E. Schwartz

Pediatrics and Cellular and Structural Biology

University of Colorado Health Sciences Center

4200 East Ninth Avenue, Denver, Colorado, 80262, USA

Tel: (303) 270-4569

Fax: (303) 270-8353

Email: schwartz_p@defiance.hsc.colorado.edu.

Location/Qualifiers

1. 126

/organism="Rattus norvegicus"

/mol_type="mRNA"

/strain="Sprague-Dawley"

/db_xref="taxon:10116"

/clone="e17-1.3.3"

/clone_lib="Lambda Zap Express library of P. E. Schwartz

(9/93)"

/note="developmental-stage=Embryonic Day 17

Post-fertilization; tissue-type=Aorta; cell-type=Vascular

smooth muscle cell; sex=Male."

Query Match 35.0%; Score 30.8; DB 7; Length 126;

Best Local Similarity 52.7%; Pred. No. 1.1;

Matches 39; Conservative 8; Mismatches 27; Indels 0; Gaps 0;

QY 15 UAGUGUAGUGGUUAUCAGUUGCCUACACGCGAAAGUCCCGUUGCGAAACCGGCA 74

DB 51 TAGTCTAGTGTAGGAGCGCTTGCTAGGAAGCGCAAGCCCTGGGTTCGTCCTCAGCT 110

QY 75 CUACAAAACCAAC 88

DB 111 CTGAAAAAAGAAC 124

RESULT 7

LOCUS BX203515

DEFINITION Danio rerio genomic clone DKEY-224D6, genomic survey sequence.

ACCESSION BX203515

VERSION BX203515.1

KEYWORDS GSS.

Query Match 33.2%; Score 29.2; DB 4; Length 130;
Best Local Similarity 53.4%; Pred. No. 4.4;

Z261468/c

5 UAGUGUAGUGGUUUAUCAGTUGCCCUAACACGCGAAAGGUCCCGGUTUCGMAACCGGGCA 74
 9 TAGCTAGTGTTAGAACGCGCTTACCTAGGAAGCGCAAGGCCCTGGGTTTCGATCCCAAGCT 128
 5 CUACAAAAACCAAC 88
 CCGAAAAAAGAAC 142

RESULT 12
AZ261468/C

| LOCUS | 157 bp | DNA | linear | GSS 26-JUL-2000 |
|------------|-------------------------|-----|--------|-----------------|
| DEFINITION | | | | |
| | AZ261468 | | | |
| | RPCI-23-153P14 | | | |
| | RPCI-23-153P14 | | | |
| | RPCI-23-153P14 | | | |
| | genomic survey sequence | | | |
| | genomic survey sequence | | | |

ACCESSION
A2261468
A2261468.1 GI: 9469876
VERSION
KEYWORDS
GSS.

| | |
|--|---------------|
| Mus musculus | (house mouse) |
| Mus musculus | |
| MUS MUSCULUS | |
| ORGANISM | |
| Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; | |
| Bakariyoti; Ethozoa; Rodentia; Sciurognathi; Muridae; Mus. | |
| Mammalia; Rutheria; Rodentia; Sciurognathi; Muridae; Mus. | |

REFERENCE
1. (bases 1 to 157)
Zhao, S., Nierman, W., Feldblyum, T., Malek, J., Shatsman, S.,
Atkinret, B., Levins, M., McGann, S., Tsegaye, G., Geer, K., Krol, M., de
Toor, B., and Fraser, C. M.

| | |
|---------|--|
| TITLE | Mouse BAC End Sequences from Library RPCI-23 |
| JOURNAL | Unpublished (1999) |
| COMMENT | Other_GSSs: RPCI-23-153F14.TV |

Contact: Shaying Zhao
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA

Tel: 301 838 0200
Fax: 301 838 0208
Email: szhao@igr.org
Clones are derived from the mouse BAC library RPCI-23. For BAC

library availability, please contact Pieter de Jong (pieter@dejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (<http://bacpac.med.buffalo.edu/orderingframe.htm>). BAC end page: info@resgen.com.

or from www.tigr.org/tdb/bac_ends/mouse/bac_end_intro.html
 Plate: 153 row: F column: 14
 Seq primer: SP6

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Class: BAC ends.
Location/Qualifiers
1..157
/organism="Mus musculus"

FEATURES
source

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/mol type="genomic DNA"
/strn="C57BL/6J"
/db_xref="taxon:10090"
/ncbi_sra="SRR321537.4"

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/clones=RPCi-23-100114
/sex="female"
/lab_host="DH10B"
/clone_lib="RPCi-23"

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/note=Organ: Kidney;Brain; Vector1: pBacpac2;Site:1: ECOR1; Site:2: ECOR1; Female C57BL/6J mouse kidney and/or brain genomic DNA was isolated and partially digested with a combination of EcoRI and EcoRI Methase. Size

selected DNA was cloned into the pRac3.6 vector at the EcoRI sites. The ligation products were transformed into DH10B electrocompetent cells (BRL Life Technologies).

| ORIGIN | Query Match | Score | DB | Length |
|--------|-----------------------|--------|----------------|--------|
| | 33.0%; | 29; | 8; | 157; |
| | Best Local Similarity | 54.1%; | Pred. No. 5.4; | |

| Matches | 33; Conservative | 8; Mismatches | 20; indels | 0; gaps |
|---------|------------------|--|------------|---------|
| QY | 26 | UUAUCACGUUGCUCUAAACACGCGAAGGUCCCCGGUUGCGAAACGGGGACUACAAAAACC | 85 | |

Db 132 TTAATAATTTCCTAGCATGACAAAGCCCTGGTTCAATCTCTAGCACTACATAAACC 73

86 A 86
QY |

Db 72 A 72

| RESULT 13 | LOCUS | 166 bp | DNA | linear | GSS 12-MAY-2000 |
|------------|------------------|---------|--------------|---------------|-----------------|
| AZ118437 | AZ118437 | | | | |
| DEFINITION | RP11-23-476F9.TJ | RP11-23 | Mus musculus | genomic clone | RP11-23-476F9 |

| | | |
|-----------|------------|--------------------------|
| ACCESSION | AZ118437 | genomic survey sequence. |
| VERSION | AZ118437.1 | GI:7782376 |
| WGS | SS | |

| SOURCE | ORGANISM |
|----------------------------|--------------------------------------|
| Mus musculus (house mouse) | Craniala; Vertebrata; Euteleostomi; |
| Mus musculus | Eukaryota; Metazoa; Chordata; |
| | Sciurognathi; Muridae; Murinae; Mus. |
| | Prodentia; |

REFERENCE

Mammalia; Eutheria; I (Bases 1 to 166)

AUTHORS

Zhao, S., Nierman, W., Feldblyum, T., Malek, J., Shatsman, S., Akınret, B., Levins, M., McGinnis, S., Tsegaye, G., Geer, K. Krol, M., de

TITLE
 JOURNAL
 COMMENT
 Jong, P. and Fraser, C.M.
 Mouse BAC End Sequences from Library RPCI-23
 Unpublished (1999)
 Other GSSEs: RPCI-23-476P9.TV

Contact: Shaying Zhao
Department of Eukaryotic Genomics
The Institute for Genomic Research
2201 Mainline Center Dr. Rockville, MD 20850, USA

9112 Medical Center Dr., Rockville, MD 20850
Tel: 301 838 0200
Fax: 301 838 0208
Email: szhac@tigr.org
P.O. Address: BPO1-23 Box PAC

Clones are derived from the mouse BAC library *MPR-23*. For BAC library availability, please contact Pieter de Jong (pieter@dejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (<http://bacpac.med.buffalo.edu/orderingframe.htm>).

or from Resea ch Genetics (info@resgen.com) . BAC end page:
http://www.tigr.org/tdb/bac_ends/mouse/bac_end_intro.html
plate: 476 row: F column: 9
saccharimer. SP6

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FEATURES
source
Location/Qualifiers
1. .166
Class: BAC ends.
seq prim.

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/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"

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/clone="RPCI-23-476F9"  
/sex="Female"  
/lab_host="DH10B"  
/clone_lib="RPCI-23"
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/note="Organ: Kidney/Brain; Vector: pBAC2.6; Site 1:
ECORI; Site 2: ECORI; Female C57BL/6J mouse kidney and/or
brain genomic DNA was isolated and partially digested
with EcoRI and EcoPI. Methyase Size

```

with a combination of *Acc*RI and *Not*I. The selected DNA was cloned into the pBACe3.6 vector at the *Acc*RI sites. The ligation products were transformed into DH10B electrocompetent cells (BRL Life Technologies)."

| ORIGIN | Query Match | Score 29; | DB 8; | Length 166; |
|--------|-----------------------|----------------|-------|-------------|
| | Best local similarity | 33.0% | | |
| | | 52.2% | | |
| | | Pred. No. 5.4; | | |

| Best local alignment | Matches | Conservative | Mismatches | Indels | Gaps |
|---|---------|--------------|------------|--------|------|
| UAGUGUAGUGGUUUAUGACGUUCCGCUACACCGAAAGGUGCCCGUUCGAAACCGGCA | 36 | 36 | 8 | 25 | 0 |
| QY | 15 | | | | 74 |

| | | | |
|----|----|---|-----|
| Dδ | 89 | TAGTTCAGTTGATAGCATGCTCTCCIAACATGCACATAGCCCTGGGGTTTGATCCTCAGAA | 148 |
| Ov | 75 | CUACAAAAA | 83 |

149 CAACATAAA 157

RESULT 14
BX244513 175 bp DNA linear GSS 13-MAR-2003
LOCUS BX244513 genomic clone DKEY_233w3 genomic survey sequence.

DEFINITION
DANIO RERIO GENOMIC CLONE DATA 28285, 28286, 28287, 28288, 28289, 28290, 28291, 28292, 28293, 28294, 28295, 28296, 28297, 28298, 28299, 28300, 28301, 28302, 28303, 28304, 28305, 28306, 28307, 28308, 28309, 28310, 28311, 28312, 28313, 28314, 28315, 28316, 28317, 28318, 28319, 28320, 28321, 28322, 28323, 28324, 28325, 28326, 28327, 28328, 28329, 28330, 28331, 28332, 28333, 28334, 28335, 28336, 28337, 28338, 28339, 28340, 28341, 28342, 28343, 28344, 28345, 28346, 28347, 28348, 28349, 28350, 28351, 28352, 28353, 28354, 28355, 28356, 28357, 28358, 28359, 28360, 28361, 28362, 28363, 28364, 28365, 28366, 28367, 28368, 28369, 28370, 28371, 28372, 28373, 28374, 28375, 28376, 28377, 28378, 28379, 28380, 28381, 28382, 28383, 28384, 28385, 28386, 28387, 28388, 28389, 28390, 28391, 28392, 28393, 28394, 28395, 28396, 28397, 28398, 28399, 28400, 28401, 28402, 28403, 28404, 28405, 28406, 28407, 28408, 28409, 28410, 28411, 28412, 28413, 28414, 28415, 28416, 28417, 28418, 28419, 28420, 28421, 28422, 28423, 28424, 28425, 28426, 28427, 28428, 28429, 28430, 28431, 28432, 28433, 28434, 28435, 28436, 28437, 28438, 28439, 28440, 28441, 28442, 28443, 28444, 28445, 28446, 28447, 28448, 28449, 28450, 28451, 28452, 28453, 28454, 28455, 28456, 28457, 28458, 28459, 28460, 28461, 28462, 28463, 28464, 28465, 28466, 28467, 28468, 28469, 28470, 28471, 28472, 28473, 28474, 28475, 28476, 28477, 28478, 28479, 28480, 28481, 28482, 28483, 28484, 28485, 28486, 28487, 28488, 28489, 28490, 28491, 28492, 28493, 28494, 28495, 28496, 28497, 28498, 28499, 28500, 28501, 28502, 28503, 28504, 28505, 28506, 28507, 28508, 28509, 28510, 28511, 28512, 28513, 28514, 28515, 28516, 28517, 28518, 28519, 28520, 28521, 28522, 28523, 28524, 28525, 28526, 28527, 28528, 28529, 28530, 28531, 28532, 28533, 28534, 28535, 28536, 28537, 28538, 28539, 28540, 28541, 28542, 28543, 28544, 28545, 28546, 28547, 28548, 28549, 28550, 28551, 28552, 28553, 28554, 28555, 28556, 28557, 28558, 28559, 28560, 28561, 28562, 28563, 28564, 28565, 28566, 28567, 28568, 28569, 28570, 28571, 28572, 28573, 28574, 28575, 28576, 28577, 28578, 28579, 28580, 28581, 28582, 28583, 28584, 28585, 28586, 28587, 28588, 28589, 28590, 28591, 28592, 28593, 28594, 28595, 28596, 28597, 28598, 28599, 28600, 28601, 28602, 28603, 28604, 28605, 28606, 28607, 28608, 28609, 28610, 28611, 28612, 28613, 28614, 28615, 28616, 28617, 28618, 28619, 28620, 28621, 28622, 28623, 28624, 28625, 28626, 28627, 28628, 28629, 28630, 28631, 28632, 28633, 28634, 28635, 28636, 28637, 28638, 28639, 28640, 28641, 28642, 28643, 28644, 28645, 28646, 28647, 28648, 28649, 28650, 28651, 28652, 28653, 28654, 28655, 28656, 28657, 28658, 28659, 28660, 28661, 28662, 28663, 28664, 28665, 28666, 28667, 28668, 28669, 28670, 28671, 28672, 28673, 28674, 28675, 28676, 28677, 28678, 28679, 28680, 28681, 28682, 28683, 28684, 28685, 28686, 28687, 28688, 28689, 28690, 28691, 28692, 28693, 28694, 28695, 28696, 28697, 28698, 28699, 28700, 28701, 28702, 28703, 28704, 28705, 28706, 28707, 28708, 28709, 28710, 28711, 28712, 28713, 28714, 28715, 28716, 28717, 28718, 28719, 28720, 28721, 28722, 28723, 28724, 28725, 28726, 28727, 28728, 28729, 28730, 28731, 28732, 28733, 28734, 28735, 28736, 28737, 28738, 28739, 28740, 28741, 28742, 28743, 28744, 28745, 28746, 28747, 28748, 28749, 28750, 28751, 28752, 28753, 28754, 28755, 28756, 28757, 28758, 28759, 28760, 28761, 28762, 28763, 28764, 28765, 28766, 28767, 28768, 28769, 28770, 28771, 28772, 28773, 28774, 28775, 28776, 28777, 28778, 28779, 28780, 28781, 28782, 28783, 28784, 28785, 28786, 28787, 28788, 28789, 28790, 28791, 28792, 28793, 28794, 28795, 28796, 28797, 28798, 28799, 28800, 28801, 28802, 28803, 28804, 28805, 28806, 28807, 28808, 28809, 28810, 28811, 28812, 28813, 28814, 28815, 28816, 28817, 28818, 28819, 28820, 28821, 28822, 28823, 28824, 28825, 28826, 28827, 28828, 28829, 28830, 28831, 28832, 28833, 28834, 28835, 28836, 28837, 28838, 28839, 28840, 28841, 28842, 28843, 28844, 28845, 28846, 28847, 28848, 28849, 28850, 28851, 28852, 28853, 28854, 28855, 28856, 28857, 28858, 28859, 28860, 28861, 28862, 28863, 28864, 28865, 28866, 288

| SOURCE | ORGANISM |
|-------------------------|--|
| Danio rerio (zebrafish) | Vertebrata; Euteleostomi; |
| Danio rerio | Eukaryota; Metazoa; Craniata; |
| Danio rerio | Aktynoterygii; Neopterygii; Teleostei; |
| Danio rerio | Osteichthyes; Osteichthys; |

REFERENCE
AUTHORS

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 31, 2004, 01:51:44 ; Search time 852.61 Seconds
(without alignments)
1774.868 Million cell updates/sec

Title: US-09-974-974-1
Perfect score: 32
Sequence: 1 gguccggcgaugagagagucucuc 32

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues

Total number of hits satisfying chosen parameters: 1924030

Minimum DB seq length: 0
Maximum DB seq length: 60

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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4: gb.om.*
5: gb.ov.*
6: gb.pat.*
7: gb.ph.*
8: gb.pl.*
9: gb.pr.*
10: gb.ro.*
11: gb.sts.*
12: gb.sv.*
13: gb.un.*
14: gb.vi.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match % | Length | DB | ID | Description |
|------------|-------|---------------|--------|----|----------|--------------------|
| 1 | 32 | 100.0 | 32 | 6 | AX453842 | AX453842 Sequence |
| 2 | 32 | 100.0 | 32 | 6 | BD143498 | BD143498 Nucleic a |
| 3 | 21.4 | 66.9 | 33 | 6 | AX453844 | AX453844 Sequence |
| 4 | 21.4 | 66.9 | 33 | 6 | BD143500 | BD143500 Nucleic a |
| 5 | 17.8 | 55.6 | 60 | 6 | CQ547198 | CQ547198 Sequence |
| 6 | 17.4 | 54.4 | 29 | 6 | BD197186 | BD197186 Method an |
| 7 | 17.4 | 54.4 | 40 | 6 | AX453853 | AX453853 Sequence |
| 8 | 17.4 | 54.4 | 47 | 6 | AR291770 | AR291770 Sequence |
| 9 | 16.6 | 51.9 | 30 | 6 | AR179707 | AR179707 Sequence |
| 10 | 16.6 | 51.9 | 30 | 6 | BD222050 | BD222050 SH2 domai |
| 11 | 16.4 | 51.2 | 27 | 6 | BD162072 | BD162072 Method fo |
| 12 | 16.4 | 51.2 | 55 | 6 | AX211297 | AX211297 Sequence |
| 13 | 16.2 | 50.6 | 39 | 6 | AR213624 | AR213624 Sequence |
| 14 | 16.2 | 50.6 | 39 | 6 | BD057682 | BD057682 Fusion pr |
| 15 | 16.2 | 50.6 | 39 | 6 | BD081512 | BD081512 Soluble s |
| 16 | 16.2 | 50.6 | 51 | 6 | AR145871 | AR145871 Sequence |
| 17 | 16.2 | 50.6 | 60 | 6 | CQ550477 | CQ550477 Sequence |
| 18 | 16 | 50.0 | 29 | 6 | BD199490 | BD199490 Method an |
| 19 | 16 | 50.0 | 53 | 6 | AR105779 | AR105779 Sequence |

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|---|----|------|------|----|---|----------|--------------------|
| C | 20 | 15.8 | 49.4 | 38 | 6 | AX218725 | AX218725 Sequence |
| | 21 | 15.6 | 48.8 | 50 | 6 | AX161018 | AX161018 Sequence |
| | 22 | 15.6 | 48.8 | 60 | 6 | CQ553925 | CQ553925 Sequence |
| C | 23 | 15.4 | 48.1 | 25 | 6 | AX533469 | AX533469 Sequence |
| | 24 | 15.4 | 48.1 | 25 | 6 | AX533472 | AX533472 Sequence |
| | 25 | 15.4 | 48.1 | 36 | 6 | AR041983 | AR041983 Sequence |
| | 26 | 15.4 | 48.1 | 36 | 6 | AX637441 | AX637441 Sequence |
| | 27 | 15.4 | 48.1 | 38 | 6 | AR334837 | AR334837 Sequence |
| C | 28 | 15.4 | 48.1 | 51 | 6 | AX190288 | AX190288 Sequence |
| | 29 | 15.4 | 48.1 | 57 | 4 | BOVOST | M31318 Bovine oste |
| | 30 | 15.4 | 48.1 | 60 | 6 | CQ535421 | CQ535421 Sequence |
| C | 31 | 15.2 | 47.5 | 28 | 6 | I33133 | I33133 Sequence 3 |
| | 32 | 15.2 | 47.5 | 60 | 6 | CQ551175 | CQ551175 Sequence |
| C | 33 | 15 | 46.9 | 25 | 6 | AX533467 | AX533467 Sequence |
| | 34 | 15 | 46.9 | 25 | 6 | AX533468 | AX533468 Sequence |
| | 35 | 15 | 46.9 | 27 | 6 | BD206476 | BD206476 Enzymatic |
| | 36 | 15 | 46.9 | 29 | 6 | BD202230 | BD202230 Method an |
| C | 37 | 15 | 46.9 | 50 | 6 | CQ008519 | CQ008519 Sequence |
| | 38 | 15 | 46.9 | 51 | 6 | CQ007060 | CQ007060 Sequence |
| C | 39 | 15 | 46.9 | 58 | 6 | AX924083 | AX924083 Sequence |
| | 40 | 15 | 46.9 | 60 | 6 | CQ538656 | CQ538656 Sequence |
| C | 41 | 14.8 | 46.2 | 34 | 6 | I29828 | I29828 Sequence 14 |
| | 42 | 14.8 | 46.2 | 38 | 6 | AR331695 | AR331695 Sequence |
| | 43 | 14.8 | 46.2 | 38 | 6 | AR332379 | AR332379 Sequence |
| C | 44 | 14.8 | 46.2 | 38 | 6 | AR332820 | AR332820 Sequence |
| | 45 | 14.8 | 46.2 | 38 | 6 | AX222448 | AX222448 Sequence |

ALIGNMENTS

| | | | | | | |
|------------|---------------------|--|-------------|-----|--------|-----------------|
| RESULT 1 | AX453842 | Sequence 1 from Patent EP1213351. | 32 bp | RNA | linear | PAT 06-JUL-2002 |
| AX453842 | LOCUS | AX453842 | | | | |
| DEFINITION | AX453842 | AX453842.1 | GI:21713511 | | | |
| ACCESSION | AX453842 | | | | | |
| VERSION | AX453842.1 | | | | | |
| KEYWORDS | synthetic construct | | | | | |
| SOURCE | synthetic construct | | | | | |
| ORGANISM | synthetic construct | | | | | |
| REFERENCE | 1 | Taira, K., Warashina, M. and Warashina, T. | | | | |
| AUTHORS | | Nucleic acid enzymes acquiring an activity for cleaving a target | | | | |
| TITLE | | rna by recognising another molecule | | | | |
| JOURNAL | | Patent: EP 1213351-A 1 12-JUN-2002; | | | | |
| | | National Institute of Advanced Industrial Science and Technology | | | | |
| | | (JP) | | | | |

FEATURES

| | |
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| Source | Location/Qualifiers |
| | 1..32 |
| | /organism="synthetic construct" |
| | /mol_type="unassigned RNA" |
| | /db_xref="taxon:32630" |
| | /note="maxizyme-constituting RNA molecule" |

ORIGIN

| | |
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| Query Match | 100.0%; Score 32; DB 6; Length 32; |
| Best Local Similarity | 71.9%; Pred. No. 0.00063; |
| Matches | 23; Conservative 9; Mismatches 0; Indels 0; Gaps 0; |
| Qy | 1 GGUCGCGCCUGAGAGAGUGAGUCUCUC 32 |
| | : : : : : |
| Db | 1 GGTCCTGCCCTGATGAGATGATGACTCTTC 32 |

RESULT 2

| | | | | | | |
|------------|--------------------|---|-------|-----|--------|-----------------|
| BD143498 | LOCUS | BD143498 | 32 bp | RNA | linear | PAT 17-JAN-2003 |
| DEFINITION | BD143498 | Nucleic acid enzyme acquiring activity of cleaving other specific | | | | |
| ACCESSION | BD143498 | target RNA by recognizing RNA molecule. | | | | |
| VERSION | BD143498.1 | GI:27849256 | | | | |
| KEYWORDS | JP 2002119283-A/1. | | | | | |

SOURCE
ORGANISM
synthetic construct
artificial sequences.

REFERENCE
1 (bases 1 to 32)

AUTHORS
Taira,K., Warashina,M. and Warashina,T.

TITLE
Nucleic acid enzyme acquiring activity of cleaving other specific target RNA by recognizing RNA molecule

JOURNAL
Patent: JP 2002119283-A 1 23-APR-2002;
DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND P T BAKRIE AND BROTHERS,JAPAN BIO INDUSTRY ASSOCIATION, TECHNOLOGY

COMMENT
OS Artificial Sequence
PN JP 2002119283-A/1
PD 23-APR-2002
PI KAZUNARI TAIRA,MASAKI WARASHINA,TOMOKO WARASHINA PC
C12N15/09,A61K9/127,A61K38/46,A61K48/00,A61P35/00, PC
C12N1/15,
PC C12N1/19,C12N1/21,C12N5/10,C12N9/00,C12Q1/25,C12Q1/68,C12N15/
PC 00,A61K37/54,
PC C12N5/00
CC Description of Artificial Sequence: maxizyme-constituting RNA molecule
FH Key Location/Qualifiers
FT source 1..32
/organism="Artificial Sequence".

FEATURES
source
1..32
/organism="synthetic construct"
/mol_type="genomic RNA"
/db_xref="taxon:32630"

ORIGIN
Query Match 100.0%; Score 32; DB 6; Length 32;
Best Local Similarity 71.9%; Pred. No. 0.00063;
Matches 23; Conservative 9; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGUCCTGGCCTGATGAGAGTAT 32
Db 1 GGTCCTGGCCTGATGAGAGTAT 32

RESULT 3
LOCUS
AX453844
DEFINITION
Sequence 3 from Patent EP1213351.
ACCESSION
AX453844
VERSION
AX453844.1 GI:21713513
KEYWORDS
synthetic construct
SOURCE
synthetic construct
ORGANISM
artificial sequences.

REFERENCE
1
Taira,K., Warashina,M. and Warashina,T.
Nucleic acid enzymes acquiring an activity for cleaving a target rna by recognising another molecule
Patent: EP 1213351-A 3 12-JUN-2002;
National Institute of Advanced Industrial Science and Technology (JP)

FEATURES
source
1..33
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="maxizyme-constituting RNA molecule"

ORIGIN
Query Match 66.9%; Score 21.4; DB 6; Length 33;
Best Local Similarity 69.6%; Pred. No. 68;
Matches 16; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGUCCTGGCCTGATGAGAGTAT 33
Db 1 GGTCCTGGCCTGATGAGAGTAT 33

RESULT 5
LOCUS
CQ547198
DEFINITION
Sequence 16833 from Patent WO0210449.
ACCESSION
CQ547198
VERSION
CQ547198.1 GI:41513462
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
1
Shoshan,A., Wasserman,A., Mintz,E., Mintz,L. and Faigler,S.
Oligonucleotide library for detecting rna transcripts and splice variants that populate a transcriptome
Patent: WO 0210449-A 16833 07-FEB-2002;
CompuGen Inc. (US)

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/organism="Homo sapiens"

Qy 1 GGUCCTGGCCTGATGAGAGTAT 23
Db 1 GGTCCTGGCCTGATGAGAGTAT 23

RESULT 4
LOCUS
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DEFINITION
Nucleic acid enzyme acquiring activity of cleaving other specific target RNA by recognizing RNA molecule.

ACCESSION
BD143500

VERSION
BD143500.1 GI:27849258

KEYWORDS
JP 2002119283-A/3
synthetic construct
SOURCE
artificial sequences.

REFERENCE
1 (bases 1 to 33)

AUTHORS
Taira,K., Warashina,M. and Warashina,T.

TITLE
Nucleic acid enzyme acquiring activity of cleaving other specific target RNA by recognizing RNA molecule

JOURNAL
Patent: JP 2002119283-A 3 23-APR-2002;
DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND P T BAKRIE AND BROTHERS,JAPAN BIO INDUSTRY ASSOCIATION, TECHNOLOGY

COMMENT
OS Artificial Sequence
PN JP 2002119283-A/3
PD 23-APR-2002
PI KAZUNARI TAIRA,MASAKI WARASHINA,TOMOKO WARASHINA PC
C12N15/09,A61K9/127,A61K38/46,A61K48/00,A61P35/00, PC
C12N1/15,
PC C12N1/19,C12N1/21,C12N5/10,C12N9/00,C12Q1/25,C12Q1/68,C12N15/
PC 00,A61K37/54,
PC C12N5/00
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FH Key Location/Qualifiers
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Matches 16; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

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RESULT 5
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DEFINITION
Sequence 16833 from Patent WO0210449.
ACCESSION
CQ547198
VERSION
CQ547198.1 GI:41513462
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
1
Shoshan,A., Wasserman,A., Mintz,E., Mintz,L. and Faigler,S.
Oligonucleotide library for detecting rna transcripts and splice variants that populate a transcriptome
Patent: WO 0210449-A 16833 07-FEB-2002;
CompuGen Inc. (US)

FEATURES
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/organism="Homo sapiens"

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Db 37 GGTCTGGCCTGAAGACATG 57

RESULT 6
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LOCUS      29 bp      RNA      linear      PAT 17-JUL-2003
DEFINITION Method and reagent for treating diseases or conditions concerning
            molecule participating in vasculogenic response.
ACCESSION  BD197186
VERSION     BD197186.1 GI:33006956
KEYWORDS   JP 2002509721-A/212.
SOURCE     synthetic construct
ORGANISM   artificial sequences.
REFERENCE  1 (bases 1 to 29)
AUTHORS   Pavco,P.A., Roberts,E., Jarvis,T., Coeshott,C. and Mcswiggen,J.A.
TITLE     Method and reagent for treating diseases or conditions concerning
            molecule participating in vasculogenic response
JOURNAL    Patent: JP 2002509721-A 212 02-APR-2002;
            RIBOZYME PHARMACEUTICALS INC
COMMENT    OS Artificial Sequence
           PN JP 2002509721-A/212
           PD 02-APR-2002
           PF 24-MAR-1999 JP 2000541291
           PR 27-MAR-1998 US 60/079678
           PI PAMELA A PAVCO,ELISABETH ROBERTS,THALE JARVIS,CLAIRE COESHOTT,
           PJ JAMES A MCSWIGGEN
           PC C12N15/09,A61K31/7125,A61K48/00,A61P3/10,A61P17/06, PC
           A61P29/00,
           PC A61P35/00,A61P43/00,C12N5/10,C12N9/00//A61K35/76,C12N15/00, PC
           C12N5/00
           CC Synthesized Hammerhead Ribozyme
           CC The letter 'n' stands for any base or bases forming a loop or
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Db 2 TCTTGGCCTGATGAGNCGAAGAGTTCT 29

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LOCUS      40 bp      RNA      linear      PAT 06-JUL-2002
DEFINITION Sequence 12 from Patent EP1213351.
ACCESSION  AX453853
VERSION     AX453853.1 GI:21713522
KEYWORDS
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synthetic construct
synthetic construct
artificial sequences.
REFERENCE 1
AUTHORS   Taira,K., Warashina,M. and Warashina,T.
TITLE     Nucleic acid enzymes acquiring an activity for cleaving a target
            rna by recognising another molecule
JOURNAL    Patent: EP 1213351-A 12 12-JUN-2002;
            National Institute of Advanced Industrial Science and Technology
            (JP)
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DEFINITION Sequence 3505 from patent US 6537751.
ACCESSION  AR291770
VERSION     AR291770.1 GI:31679054
KEYWORDS   Unknown.
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 47)
AUTHORS   Cohen,D., Chumakov,I. and Blumenfeld,M.
TITLE     Biallelic markers for use in constructing a high density
            disequilibrium map of the human genome
JOURNAL    Patent: US 6537751-A 3505.25-MAR-2003;
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RESULT 9
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LOCUS      30 bp      DNA      linear      PAT 20-APR-2002
DEFINITION Sequence 7 from patent US 6326482.
ACCESSION  AR179707
VERSION     AR179707.1 GI:20221262
KEYWORDS   Unknown.
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 30)
AUTHORS   Stewart,T.A. and Lu,Y.
TITLE     SH2 domain-containing peptides
JOURNAL    Patent: US 6326482-A 7 04-DEC-2001;
            Location/Qualifiers
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Best Local Similarity 65.2%; Pred. No. 1.3e+04;
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Db 6 GGCCTGTGTAAGTGCAGAGCTC 28

RESULT 10
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LOCUS SH2 domain-containing peptide.
DEFINITION BD222050
ACCESSION BD222050.1 GI:33031820
VERSION JP 2002512032-A/4.
KEYWORDS synthetic construct
SOURCE artificial sequences.
ORGANISM
REFERENCE 1 (bases 1 to 30)
AUTHORS Stewart, T.A. and Lu, Y.
TITLE SH2 domain-containing peptide
JOURNAL Patent: JP 2002512032-A 4 23-APR-2002;
GENENTECH INC
COMMENT OS Artificial Sequence
PN JP 2002512032-A/4
PD 23-APR-2002
PF 23-APR-1999 JP 2000544799
PR 23-APR-1998 US 60/082767, 22-DEC-1998 US 60/113296 PI
TIMOTHY A STEWART, YANWEI LU
PC C12N15/09, C07K14/47, C07K16/18, C07K19/00, C12M1/19, PC
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PC C12N5/10, C12P21/02, C12P21/08, C12Q1/02, C12Q1/68, G01N33/53, PC
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PC G01N33/68, C12N15/00, C12N5/00
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RESULT 11
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LOCUS Method for detecting or quantitating protein.
DEFINITION BD162072
ACCESSION BD162072.1 GI:27867830
VERSION JP 2002191364-A/8.
KEYWORDS synthetic construct
SOURCE artificial sequences.
ORGANISM
REFERENCE 1 (bases 1 to 27)
AUTHORS Tanaka, M. and Kikuchi, A.
TITLE Method for detecting or quantitating protein
JOURNAL Patent: JP 2002191364-A 8 09-JUL-2002;

/organism="unknown"
/mol_type="unassigned DNA"
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PD 09-JUL-2002 JP 2000394675
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PI MASAHITO TANAKA, AKIHIKO KIKUCHI
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Db 27 GGCCTGAAGACAGTGGTAAGATCTTC 2

RESULT 12
AX211297 55 bp DNA linear PAT 06-SEP-2001
LOCUS Sequence 12 from Patent WO0159137.
DEFINITION AX211297
ACCESSION AX211297
VERSION AX211297.1 GI:15523706
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1 artificial sequences.
AUTHORS Ulvskov, P., Shols, H., Visser, R., Borkhardt, B., Sorensen, S.O.,
Oomen, R., Vincken, J.P., McCain, M., Skjot, M., Bush, M., Voragen, C.D.
and Beldman, G.
TITLE Method for remodelling cell wall polysaccharide structures in
plants
JOURNAL Patent: WO 0159137-A 12 16-AUG-2001;
Ulvskov, Peter (DK) ; Shols, Henk (NL) ; Visser, Richard (NL) ;
Borkhardt, Bernhard (DK) ; Sorensen, Susanne O. (DK) ; Oomen,
Ronald (NL) ; Vincken, Jean-Paul (NL) ; McCain, Maureen (GB) ;
Skjot, Michael (DK) ; Bush, Max (GB) ; Voragen, Chantal Doeswijk
(NL) ; Beldman, Gerrit (NL)
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QY 5 CUGGCCUGAGAGAGUGAGUGAGCUC 30
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RESULT 13
AR213624 39 bp DNA linear PAT 25-SEP-2002
LOCUS Sequence 58 from patent US 6405989.
DEFINITION
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ACCESSION AR213624
VERSION AR213624.1 GI:23310903
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 39)
AUTHORS Davis,M.E., White,R.A., Saunders,C., Polin,R., Kristiansen,K.,
TITLE Ballone,M. and Grossman,G.
JOURNAL Rollable sports base
PATENT: US 6405989-A 58 18-JUN-2002;
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Db 4 GGGCCCGGGCTGCTGAGGGTGACGATCCC 32
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LOCUS BD057682
DEFINITION Fusion proteins comprising bacteriophage coat protein and a
single-chain T cell receptor.
ACCESSION BD057682
VERSION BD057682.1 GI:22603288
KEYWORDS
SOURCE Aspergillus tubingensis
ORGANISM Aspergillus tubingensis
REFERENCE 1 (bases 1 to 39)
AUTHORS Weidanz,J.A., Card,K.F. and Wong,H.C.
TITLE Fusion proteins comprising bacteriophage coat protein and a
single-chain T cell receptor
JOURNAL Patent: JP 2001514503-A 58 11-SEP-2001;
COMMENT SUNOL MOLECULAR CORP
PN JP 2001514503-A/58
PD 11-SEP-2001
PF 05-MAR-1998 JP 1998537984
PR 07-MAR-1997 US 08/813781
PI JON A WEIDANZ, KIMBERLYN F CARD, HING C WONG
PC C12Q1/68, C12N7/01, C12N15/70
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DEFINITION Soluble single-chain T-cell receptor proteins.
ACCESSION BD081512
VERSION BD081512.1 GI:22627115
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1 (bases 1 to 39)
AUTHORS Weidanz,J.A., Card,K.F. and Wong,H.C.
TITLE Soluble single-chain T-cell receptor proteins
JOURNAL Patent: JP 2001519143-A 58 23-OCT-2001;
COMMENT SUNOL MOLECULAR CORP
PN JP 2001519143-A/58
PD 23-OCT-2001
PF 28-SEP-1998 JP 2000514936
PR 02-OCT-1997 US 08/943086
PI JON A WEIDANZ, KIMBERLYN F CARD, HING C WONG
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

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Perfect score: 27
Sequence: 1 qucuqacuguncaucgaaacgggucc 27

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues

Total number of hits satisfying chosen parameters: 1924030

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Maximum DB seq length: 60
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 3 | 18 | 66.7 | 29 | 6 | AX453845 | Sequence |
| 4 | 18 | 66.7 | 29 | 6 | BD143501 | Sequence |
| C 5 | 17 | 63.0 | 44 | 6 | AX183095 | Nucleic a |
| | 6 | 16.59 | 45 | 6 | AX183095 | Sequence |
| C 6 | 7 | 57.8 | 45 | 9 | CQ760641 | Sequence |
| C 7 | 15.6 | 57.8 | 45 | 9 | HSCD85716 | Sequence |
| C 8 | 15.2 | 56.3 | 43 | 6 | AX297640 | H.sapiens m |
| C 9 | 15 | 55.6 | 24 | 6 | AX297640 | Sequence |
| C 10 | 15 | 55.6 | 51 | 6 | AX45798 | Sequence |
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| C 15 | 14.8 | 54.8 | 33 | 6 | AR474082 | Sequence |
| C 16 | 14.6 | 54.1 | 22 | 6 | AX078172 | Sequence |
| 17 | 14.6 | 54.1 | 28 | 6 | AX351504 | Sequence |
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| ORGANISM | synthetic construct | | | | | | | | | |
| REFERENCE | artificial sequences. | | | | | | | | | |
| AUTHORS | 1 (bases 1 to 27) | | | | | | | | | |
| TITLE | Taira,K., Warashina,M. and Warashina,T. | | | | | | | | | |
| JOURNAL | Nucleic acid enzyme acquiring activity of cleaving other specific target RNA by recognizing RNA molecule | | | | | | | | | |
| COMMENT | Patent: JP 2002119283-A 2 23-APR-2002; DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND P T BAKRIE AND BROTHERS,JAPAN BIO INDUSTRY ASSOCIATION, TECHNOLOGY | | | | | | | | | |
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| | PD | 23-APR-2002 | | | | | | | | |
| | PF | 13-OCT-2000 JP 2000313320 | | | | | | | | |
| | PI | KAZUNARI TAIRA,MASAKI WARASHINA,TOMOKO WARASHINA PC C12N15/09,A61K9/127,A61K38/46,A61K48/00,A61P31/12,A61P35/00, PC C12N1/15, | | | | | | | | |
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| DEFINITION | Sequence 4 from Patent EPI213351. | | | | | | | | | |
| ACCESSION | AX453845 | | | | | | | | | |
| VERSION | AX453845.1 GI:21713514 | | | | | | | | | |
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| SOURCE | synthetic construct | | | | | | | | | |
| ORGANISM | synthetic construct | | | | | | | | | |
| REFERENCE | artificial sequences. | | | | | | | | | |
| AUTHORS | 1 | | | | | | | | | |
| TITLE | Taira,K., Warashina,M. and Warashina,T. | | | | | | | | | |
| JOURNAL | Nucleic acid enzymes acquiring an activity for cleaving a target rna by recognising another molecule | | | | | | | | | |
| | Patent: EP 1213351-A 4 12-JUN-2002; | | | | | | | | | |
| | National Institute of Advanced Industrial Science and Technology (JP) | | | | | | | | | |
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| | /mol_type="unassigned RNA" | | | | | | | | | |
| | /db_xref="taxon:32630" | | | | | | | | | |
| | /note="maxizyme-constituting RNA mol ecule" | | | | | | | | | |
| ORIGIN | | | | | | | | | | |
| Query Match | 66.7%; Score 18; DB 6; Length 29; | | | | | | | | | |
| Best Local Similarity | 77.8%; Pred.No. 4.9e+02; 0; Indels 0; Gaps 0; | | | | | | | | | |
| Matches | 14; Conservative 4; Mismatches 0; | | | | | | | | | |
| QY | 10 | UUCAUCGAAACCGGUCC | 27 | | | | | | | |
| | | ::::: | | | | | | | | |

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Db
12 TTTCATCGAAACCGGTCC 29

RESULT 4
BD143501
LOCUS
DEFINITION
Nucleic acid enzyme acquiring activity of cleaving other specific
target RNA by recognizing RNA molecule.
ACCESSION
BD143501
VERSION
BD143501.1 GI:27849259
KEYWORDS
JP 2002119283-A/4.
SOURCE
synthetic construct
ORGANISM
artificial sequences.
1 (bases 1 to 29)
REFERENCE
1 Taïra,K., Warashina,M. and Warashina,T.
AUTHORS
Nucleic acid enzyme acquiring activity of cleaving other specific
TITLE
target RNA by recognizing RNA molecule
JOURNAL
Patent: JP 2002119283-A 4 23-APR-2002;
DIRECTOR GENERAL OF NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL
SCIENCE AND P T BAKRIE AND BROTHERS,JAPAN BIO INDUSTRY ASSOCIATION,
TECHNOLOGY
COMMENT
OS Artificial Sequence
PN JP 2002119283-A/4
PD 23-APR-2002
PF 13-OCT-2000 JP 2000313320
PI KAZUNARI TAIRA,MASAKI WARASHINA,TOMOKO WARASHINA PC
C12N15/09,A61K9/127,A61K38/46,A61K48/00,A61P31/12,A61P35/00, PC
C12N1/15,
PC C12N1/19,C12N1/21,C12N5/10,C12N9/00,C12Q1/25,C12Q1/68,C12N15/
PC 00,A61K37/54,
CC C12N5/00
CC Description of Artificial Sequence: maxizyme-constituting RNA
molecule
FH Key Location/Qualifiers
FT source 1..29
/organism='Artificial Sequence'.
FEATURES
source
Location/Qualifiers
1..29
/organism="synthetic construct"
/mol_type="genomic RNA"
/db_xref="taxon:32630"
ORIGIN
Query Match 66.7%; Score 18; DB 6; Length 29;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY
10 UTCAUCGAAACCGGUCC 27
:::|||||:::
Db
12 TTTCATCGAAACCGGTCC 29

RESULT 5
AR183095/c
LOCUS
DEFINITION
Sequence 72 from patent US 6340461.
ACCESSION
AR183095
VERSION
AR183095.1 GI:202226688
KEYWORDS
Unknown.
SOURCE
Unknown.
ORGANISM
Unclassified.
1 (bases 1 to 44)
REFERENCE
1 Terman,D.Stephen.
AUTHORS
Superantigen based methods and compositions for treatment of
TITLE
diseases
JOURNAL
Patent: US 6340461-A 72 22-JAN-2002;
FEATURES
source
Location/Qualifiers
1..44
/organism="unknown"
/mol_type="unassigned DNA"
ORIGIN

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Query Match      63.0%; Score 17; DB 6; Length 44;
Best Local Similarity 60.0%; Pred. No. 1.7e+03;
Matches 15; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY 3 CUGACUGUUCGAAACCGGGUCC 27
    |||::||: |||::||
Db 25 CAGACTGTTTCATAGGATCGGATCC 1

RESULT 6
LOCUS CQ760641/c 49 bp DNA linear PAT 03-MAR-2004
DEFINITION Sequence 83 from Patent WO2004003229.
ACCESSION CQ760641
VERSION CQ760641.1 GI:44904144
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1
AUTHORS Nex,B.R., Vogel,U., Rockenbauer,E. and Bukowy,Z.K.
TITLE Disease risk estimating method using sequence polymorphisms in a
        specific region of chromosome 19
JOURNAL Patent: WO 2004003229-A 83 08-JAN-2004;
        Aarhus University (DK); Arbejdsmilj Institutttet (National
        Institute of Occupational Health) (DK)
FEATURES
    source Location/Qualifiers
        1..49 /organism="synthetic construct"
        /mol_type="unassigned DNA"
        /db_xref="taxon:32630"
        /note="Probe"
ORIGIN
Query Match      59.3%; Score 16; DB 6; Length 49;
Best Local Similarity 54.2%; Pred. No. 5.5e+03;
Matches 13; Conservative 6; Mismatches 5; Indels 0; Gaps 0;

QY 1 GUCGACUGUUCGAAACCGGG 24
    |||::||: |||::||
Db 28 GTCGAGTATTGATCGAACCCAGG 5

RESULT 7
HSCD85716/c
LOCUS HSCD85716 H.sapiens mRNA for T cell receptor (ID CD85716).
DEFINITION Z50829
ACCESSION Z50829.1 GI:1004252
VERSION constant region; joining region; T cell receptor; variable region.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
        Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
        1 (bases 1 to 45)
        Wang,E.C., Moss,P.A., Frodsham,P., Lehner,P.J., Bell,J.I. and
        Borysiewicz,L.K.
TITLE CD8highCD57+ T lymphocytes in normal, healthy individuals are
        oligoclonal and respond to human cytomegalovirus
JOURNAL J. Immunol. 155 (10), 5046-5056 (1995)
MEDLINE 96062329
PUBMED 7594513
REFERENCE 2
AUTHORS Wang,E.C., Moss,P.A., Frodsham,P., Lehner,P.J., Bell,J.I. and
        Borysiewicz,L.K.
TITLE Oligoclonal CD8+, CD57+ T cells in normal, healthy individuals and
        their responses to HCMV
JOURNAL Unpublished
AUTHORS 3 (bases 1 to 45)
Wang,E.C.
TITLE Direct Submission
JOURNAL Submitted (17-AUG-1995) Eddie CY Wang, Medicine, University of

Wales of College of, Medicine, Heath Park, Cardiff, South
Glamorgan, CF4 4XN, Wales UK
FEATURES
    source Location/Qualifiers
        1..45 /organism="Homo sapiens"
        /mol_type="mRNA"
        /isolate="SG"
        /db_xref="taxon:9606"
V_segment 1..12 /note="end T cell receptor V beta 3"
C_region 13..27 /note="CDR3"
J_segment 28..45 /note="beginning J beta 2.1"
ORIGIN
Query Match      57.8%; Score 15.6; DB 9; Length 45;
Best Local Similarity 53.6%; Pred. No. 8.7e+03;
Matches 14; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 5 ACUGUUCGAAACCGGGUCC 27
    |||::||: |||::||
Db 40 ACTGCTCATTGTACCGAGTCC 19

RESULT 8
LOCUS AX297640/c 43 bp DNA linear PAT 21-NOV-2001.
DEFINITION Sequence 9402 from Patent WO0179548.
ACCESSION AX297640
VERSION AX297640.1 GI:17059331
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1
AUTHORS Barany,F., Zirvi,M., Gerry,N.P., Favis,R. and Kliman,R.
TITLE Method of designing addressable array for detection of nucleic acid
        sequence differences using ligase detection reaction
JOURNAL Patent: WO 0179548-A 9402 25-OCT-2001;
        CORNELL RESEARCH FOUNDATION, INC. (US)
FEATURES
    source Location/Qualifiers
        1..43 /organism="synthetic construct"
        /mol_type="unassigned DNA"
        /db_xref="taxon:32630"
        /note="Hypothetical Probe Sequence"
ORIGIN
Query Match      56.3%; Score 15.2; DB 6; Length 43;
Best Local Similarity 65.0%; Pred. No. 1.4e+04;
Matches 13; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 7 CUGUUCGAAACCGGGUCC 26
    |||::||: |||::||
Db 35 CTGTCCATCGAATGCGGGTC 16

RESULT 9
LOCUS AX445798 24 bp DNA linear PAT 03-JUL-2002
DEFINITION Sequence 2253 from Patent WO0216649.
ACCESSION AX445798
VERSION AX445798.1 GI:21694697
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1
AUTHORS Gunderson,K.
TITLE Probes and decoder oligonucleotides
JOURNAL Patent: WO 0216649-A 2253 28-FEB-2002;
        Illumina, Inc. (US)
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FEATURES
  source
    Location/Qualifiers
      1..24
        /organism="synthetic construct"
        /mol_type="unassigned DNA"
        /db_xref="taxon:32630"
        /note="Computer Generated Probe Sequence."
ORIGIN
Query Match      55.6%; Score 15; DB 6; Length 24;
Best Local Similarity 60.9%; Pred. No. 1.6e+04;
Matches 14; Conservative 4; Mismatches 5; Indels 0; Gaps 0;
Qy 3 CUGACUGUUCUCAAACCGGGU 25
Db 1 CTGACTGCATCTCGAAACGGGT 23
RESULT 10
LOCUS CQ007470/c
DEFINITION Sequence 6110 from Patent WO0147944.
ACCESSION CQ007470
VERSION CQ007470.1 GI:41014119
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
JOURNAL Shimkets,R.A. and Leach,M.
FEATURES Nucleic acids containing single nucleotide polymorphisms and
  source methods of use thereof
  Patent: WO 0147944-A 6110 05-JUL-2001;
  Curagen Corporation (US)
  Location/Qualifiers
    1..51
      /organism="Homo sapiens"
      /mol_type="unassigned DNA"
      /db_xref="taxon:9606"
      /note="Accession number cg43988954"
ORIGIN
Query Match      55.6%; Score 15; DB 6; Length 51;
Best Local Similarity 60.9%; Pred. No. 1.8e+04;
Matches 14; Conservative 4; Mismatches 5; Indels 0; Gaps 0;
Qy 1 GUCUGACUGUUCUCAAACCGG 23
Db 23 GCCTGGATGCTCTCGAAACGG 1
RESULT 11
LOCUS AR090340
DEFINITION Sequence 460 from patent US 5994076.
ACCESSION AR090340
VERSION AR090340.1 GI:10017095
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 32)
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvili,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 5994076-A 460 30-NOV-1999;
FEATURES Location/Qualifiers
  source
    1..32
      /organism="unknown"
      /mol_type="unassigned DNA"
ORIGIN
Query Match      54.8%; Score 14.8; DB 6; Length 32;
Best Local Similarity 53.8%; Pred. No. 2.1e+04;
Matches 14; Conservative 5; Mismatches 7; Indels 0; Gaps 0;
Qy 2 UCUGACUGUUCUCAAACCGGUCC 27
Db 6 TCAGAATCTCCATTCAAACCGGTCC 31
RESULT 12
LOCUS AR197375
DEFINITION Sequence 460 from patent US 6352829.
ACCESSION AR197375
VERSION AR197375.1 GI:20247224
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 32)
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvili,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 6352829-A 460 05-MAR-2002;
FEATURES Location/Qualifiers
  source
    1..32
      /organism="unknown"
      /mol_type="unassigned DNA"
ORIGIN
Query Match      54.8%; Score 14.8; DB 6; Length 32;
Best Local Similarity 53.8%; Pred. No. 2.1e+04;
Matches 14; Conservative 5; Mismatches 7; Indels 0; Gaps 0;
Qy 2 UCUGACUGUUCUCAAACCGGUCC 27
Db 6 TCAGAATCTCCATTCAAACCGGTCC 31
RESULT 13
LOCUS AR259529
DEFINITION Sequence 460 from patent US 6489455.
ACCESSION AR259529
VERSION AR259529.1 GI:27310040
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 32)
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvili,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 6489455-A 460 03-DEC-2002;
FEATURES Location/Qualifiers
  source
    1..32
      /organism="unknown"
      /mol_type="genomic DNA"
ORIGIN
Query Match      54.8%; Score 14.8; DB 6; Length 32;
Best Local Similarity 53.8%; Pred. No. 2.1e+04;
Matches 14; Conservative 5; Mismatches 7; Indels 0; Gaps 0;
Qy 2 UCUGACUGUUCUCAAACCGGUCC 27
Db 6 TCAGAATCTCCATTCAAACCGGTCC 31
RESULT 14
LOCUS BD274953/c
DEFINITION POLYNUCLEOTIDES AND PROTEINS ENCODED THEREBY.
ACCESSION BD274953
VERSION BD274953.1 GI:33084721
KEYWORDS JP 2002538786-A/17;
SOURCE synthetic construct
PAT 17-JUL-2003
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ORGANISM    synthetic construct
REFERENCE   1 (bases 1 to 33)
AUTHORS     Shimkets,R.A.
TITLE       POLYNUCLEOTIDES AND PROTEINS ENCODED THEREBY
JOURNAL     Patent: JP 2002538786-A 17 19-NOV-2002;
            CuraGen Corporation,Richard A Shimkets
COMMENT     OS Artificial Sequence
            PN JP 2002538786-A/17
            PD 19-NOV-2002
            PF 09-MAR-2000 JP 2000603363
            PR 08-MAR-2000 US 09/520781,09-MAR-1999 US 60/123667 PI
            richard a shimkets
            CC Description of Artificial Sequence: Primer
            FH Key Location/Qualifiers
FEATURES    source
            1..33
            /organism="synthetic construct"
            /mol_type="genomic DNA"
            /db_xref="taxon:32630"
ORIGIN
Query Match      54.8%; Score 14.8; DB 6; Length 33;
Best Local Similarity 53.8%; Pred. No. 2.1e+04;
Matches 14; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY      2 UCUGACUGUUCGAAACCGGUCC 27
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Db      26 TCAGAACTCTCTGGGAAACCGGATCC 1

RESULT 15
AR474082/c
LOCUS       AR474082          33 bp DNA linear PAT 20-FEB-2004
DEFINITION Sequence 33 from patent US 6689866.
ACCESSION  AR474082
VERSION    AR474082.1 GI:42712839
KEYWORDS   .
SOURCE     Unknown.
           ORGANISM
           Unclassified.
REFERENCE   1 (bases 1 to 33)
AUTHORS     Shimkets,R.A.
TITLE       Polynucleotides and proteins encoded thereby
JOURNAL     Patent: US 6689866-A 33 10-FEB-2004;
FEATURES    source
            1..33
            /organism="unknown"
            /mol_type="genomic DNA"
ORIGIN
Query Match      54.8%; Score 14.8; DB 6; Length 33;
Best Local Similarity 53.8%; Pred. No. 2.1e+04;
Matches 14; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY      2 UCUGACUGUUCGAAACCGGUCC 27
       :|||:|:| |||||:|:|
Db      26 TCAGAACTCTCTGGGAAACCGGATCC 1

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